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2021 - 2022

Question Papers

with Answer Key

PAPER 1 - ALL SHIFTS



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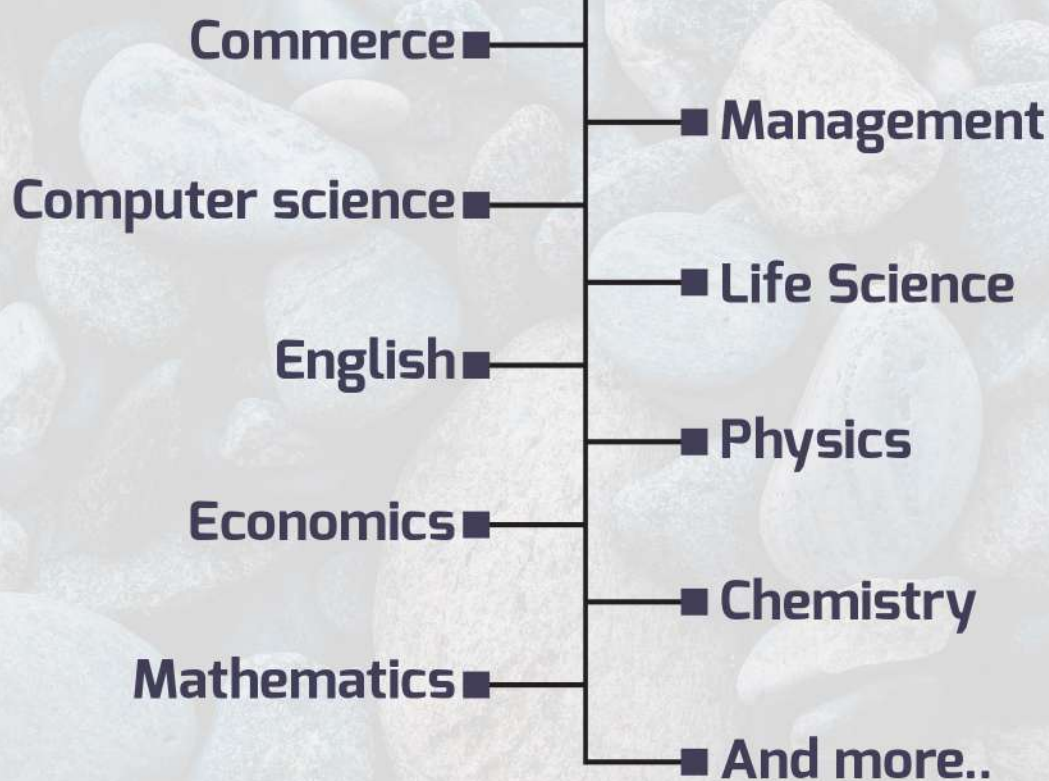
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UGC - NTA - NET - PAPER 1 - 2021

QUESTION PAPER-1

50 Questions

Study the table carefully and answer the questions that follow

Given below is a table that shows the expenditure of a company (in Lakh Rupees) per annum over the given years

Expenditure Item	Salary	Travel	Hospitality	Interest on Loan	Taxes
Year					
2016	330	70	30	28	80
2017	380	65	33	31	87
2018	420	72	35	33	91
2019	450	75	40	36	94
2020	480	84	43	39	97

1. The difference between average expenditure on 'Taxes' and average expenditure on 'Interest on Loan' is:

- A. 54.8
- B. 55.6
- C. 56.4
- D. 57.2



2. What is the average expenditure on Travel and Hospitality during 2016 to 2020?

- A. 108.3
- B. 108.7
- C. 109.4
- D. 110.5

3. Increase of expenditure from 2019 to 2020 in percentage is:

- A. 5.3
- B. 5.8
- C. 6.9
- D. 7.2

4. In which year is the Travel expenditure (as a percentage) minimum?

- A. 2017
- B. 2018
- C. 2019
- D. 2020

5. In which year is the ratio of Salary to Hospitality maximum?

- A. 2017
- B. 2018
- C. 2019
- D. 2020

6. The permissible limit for Arsenic in drinking water, as per Indian Standards

[IS:10500] is

- A. 0.05 mg/L
- B. 0.5 mg/L
- C. 1.0 mg/L
- D. 2.0 mg/L

7. Match List I with List II

List I	List II
A. NIEPA	I. Promotion of quality in technical education
B. NAAC	II. To promote research in social sciences
C. AICTE	III. Planning and management of education
D. ICSSR	IV. Accreditation of higher education institutions



Choose the correct answer from the options given below:

- A. A - III, B - IV, C - I, D - II
- B. A - III, B - IV, C - II, D - I
- C. A - IV, B - II, C - I, D - III
- D. A - IV, B - III, C - II, D - I

8. **Name the fallacy committed in the statements below**

"All text books are books intended for careful study.

Some reference books are books intended for careful study.

Therefore, some reference books are text books."

Choose the correct answer from the options given below

- A. Affirmative conclusion from Negative Premise
- B. Exclusive Premises
- C. Existential Fallacy
- D. Undistributed Middle

9. The basic free version of 200M web meeting platform allows an online class to be conducted for how many minutes?

- A. 30 minutes
- B. 40 minutes
- C. 50 minutes
- D. 60 minutes

10. Match List I with List II

List I	List II
Concept of power Communication	Description of feature
A. Legitimate power	I. Specialized knowledge
B. Referent power	II. By virtue of position
C. Reward power	III. When others feel to be like you
D. Expert power	IV. Control over what others seek

Choose the correct answer from the options given below:

- A. A - I, B - II, C - III, D - IV
- B. A - II, B - III, C - IV, D - I
- C. A - III, B - IV, C - I, D - II
- D. A - IV, B - I, C - II, D - III



11. Sometimes, subjects who know that they are in a control group may work hard to excel against the experimental group. Such a phenomenon is known as

- A. Compensatory Rivalry
- B. Controlled Competition
- C. Inspirational Influence
- D. Motivational Contest

12) According to Red list, the percentage of threatened mammals in the world is about

- A. 20%
- B. 25%
- C. 40%
- D. 45%

13. With respect to a music teacher who wishes to use a computer to help him to create training material, match List I with List II

List I	List II
Training Material	File Format
A. Printed copies of instructions on how to play his music	I. MP3
B. Sound files of him playing his music	II. DOC
C. Video files of him playing his music	III. JPEG
D. Images of the instruments he teaches	IV. AVI



Choose the correct answer from the options given below:

A. A - I, B - II, C - III, D - IV

B. A - II, B - I, C - III, D - IV

C. A - II, B - I, C - IV, D - III

D. A - III, B - I, C - IV, D - II

14. How many minutes is it before 12 noon if 48 minutes ago it was three times as many minutes past 9 AM?

A. 33 minutes

B. 40 minutes

C. 43 minutes

D. 43.5 minutes

15. Kigali Amendment to the Montreal Protocol envisages reduction in HFCs consumption by late 2040s to the extent of

A. 50-55%

B. 65-70%

C. 80-85%

D. 90-95%



16. Which number comes next in this sequence:

1, 1.5, 2.5, 4, ?

A. 5.5

B. 5

C. 6.5

D. 6

17. Analytic Induction is a method of

A. Systematic interpretation of events

B. Generating hypothesis

C. Testing hypothesis

D. Freestyle interpretation

E. Testing null hypothesis only

Choose the correct answer from the options given below:

A. A, B and E only

B. A, B and C only

C. B, C and D only

D. C, D and E only



18. Given below are two statements:

Statement I: -

A number is divisible by 12 if the number is divisible by both 3 and 4.

Statement II: -

A number is divisible by 3, if and only if the sum of all the digits of the number is divisible by 6.

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

19. Which of the following are determinants in transactional communication?

- A. Social context
- B. Cultural context
- C. Relational context
- D. Legal context
- E. Delayed context



Choose the correct answer from the options given below:

- A. A, B and E only
- B. A, B and C only
- C. B, C and D only
- D. C, D and E only

20. The key objective of RUSA is to improve:

- A. Access
- B. Equity
- C. Quality
- D. Infrastructure
- E. Curriculum

Choose the correct answer from the options given below:

- A. A, B and E only
- B. A, B and C only
- C. B, C and D only
- D. C, D and E only

21. Which one of the following is a disadvantage of using proprietary software rather than open source software?

- A. Proprietary software can only be accessed with a password
- B. Proprietary software can only be used on proprietary systems
- C. Proprietary software can only be used with an Internet connection
- D. Proprietary software is usually more expensive

22. Which of the following is NOT a constituent-member of the Indian syllogistic argument?

- A. Hetu
- B. Samśaya
- C. Udaharana
- D. Upanaya



23) Match List I with List II

List I	List II
Description	Appropriate Technical Term
A. Numerical ID for each device on the Internet	I. VOIP
B. Unique ID for a Network Interface Card (NIC)	II. URL
C. Use of the Internet to make phone calls	III. MAC Address
D. Text used by web browsers to locate a web address on the Internet	IV. IP Address

Choose the correct answer from the options given below:

- A. A - I, B - III, C - IV, D - II
- B. A - II, B - III, C - I, D - IV
- C. A - IV, B - III, C - I, D - II
- D. A - IV, B - III, C - II, D - I

24) **Statement I:-**

In communication, language ambiguity takes place because of the incorrect use of words.

Statement II:-

Informal time terms lead to different interpretations.

In light of the above statements, choose the most appropriate answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

25. Which of the following statements about internal and external computer memory are true?

- A. A portable hard drive is an example of internal memory
- B. Magnetic tape is used to store backups of data
- C. RAM is an internal memory
- D. ROM loses its data when the power is turned off

Choose the correct answer from the options given below

- A. A and C only
- B. A and B only
- C. B and C only
- D. C and D only

26) Match List I with List II

Artifacts	Description
A. History	I. Happens when subjects are given similar pre-tests and post-tests
B. Maturation	II. Subjects' reactions to experimental conditions
C. Testing	III. Occurance of various events during a study
D. Demand characteristics	IV. Biological and psychological characters changing during the course of the study

Choose the correct answer from the options given below:

A. A - I, B - II, C - III, D - IV

B. A - II, B - III, C - IV, D - I

C. A - III, B - IV, C - I, D - II

D. A - IV, B - I, C - II, D - III

27. The characteristics of longitudinal studies are:

A. Limited results

B. Do not need heavy investment

C. Provide alternative choices

D. Allow insight into the time order of variables

E. Focuses on individual or institutional developments



Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, D and E only
- C. B, C and D only
- D. C, D and E only

28. Which of the following statement/s is/are correct?

- A. Yaman crosses a 600m long road in 5 minutes. His speed is 7.2 km/hr
- B. Vinod performs $\frac{2}{15}$ of his total journey by train; $\frac{9}{20}$ by bus and rest 10 km on cycle. His total journey is 24 km
- C. Anita can complete a work in 8 days. She can complete $\frac{1}{8}$ fraction of the work in two days

Choose the correct answer from the options given below

- A. A and B only
- B. A and C only
- C. A only
- D. B only



29. The population of a bacteria culture increases at a rate of 4% per annum.

There is an additional increase of 1% of the population due to some reason.

The percentage increase in the population after two years is, therefore

- A. 10.25
- B. 10.5
- C. 10.75
- D. 10

30. Identify the correct sequence of BRICS countries in relation to their Sustainable Development Goals Index (from highest to lowest) as per the Sustainable Development Report (2020)

- A. China
- B. India
- C. South Africa
- D. Brazil
- E. Russian Federation

Choose the correct answer from the options given below

- A. $A > D > E > C > B$
- B. $C > D > E > A > B$
- C. $C > E > B > D > A$
- D. $E > D > C > A > B$

31. Match List I with List II

Content Area	Integrating Technology Application
A. Reading /Language Arts	I. Software programs to develop basic reading skills
B. Mathematics	II. Simulations to explore distant places and times
C. Science	III. Graphing calculations to illustrate abstract or hard – to – visualize relationships
D. Social Studies	IV. Simulations to illustrate complex relationships

Choose the correct answer from the options given below

A. A - I, B - III, C - IV, D - II

B. A - II, B - I, C - III, D - IV

C. A - III, B - IV, C - II, D - I

D. A - IV, B - II, C - I, D - III

32. CBCS provides an opportunity for students to choose courses from:

A. Core courses

B. Environmental education

C. Elective courses

D. Computer courses

E. Ability enhancement courses



Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, C and E only
- C. B, C and D only
- D. C, D and E only

33. The NEP-2020 recommends that the duration of the B.Ed. programme will be of

- A. One year
- B. Two years
- C. Three years
- D. Four years
- E. Five years

Choose the correct answer from the options given below:

- A. A, B and D only
- B. A, B and C only
- C. B, C and D only
- D. C, D and E only

34. Which of the following is considered unethical communication?

- A. Non-commercial publicity
- B. Not revealing the source of information
- C. Propaganda
- D. Use of alternative source of information

35. Pick the correct code

- A. A valid syllogistic argument cannot have two negative premises
- B. Middle term must be distributed at least once in the premises of a syllogistic argument
- C. With one negative premise in a syllogistic argument, the conclusion is negative
- D. With two particular premises in a syllogistic argument, a universal conclusion can be drawn

36. Given below are two statements, one is labeled as **Assertion A** and the other is labeled as **Reason R**

Assertion A: A research question should have some connection with an existing theory or research

Reason R: The research question formulated should be either too broad or too narrow.



In light of the above statements, choose the correct answer from the options given below

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A

37. Arrange these instructional events for delivering the lesson to students in sequential order from the beginning to the end.

- A. Informing the learner of the objectives
- B. Eliciting desired behaviour
- C. Gaining attention
- D. Presenting the content
- E. Providing feedback

Choose the correct answer from the options given below

- A. A, D, B, C, E
- B. B, C, A, E, D
- C. C, A, D, B, E
- D. D, C, B, A, E

38. 'I see a piece of fragrant sandalwood' would correctly represent

- A. Jñānalakshana
- B. Nirvikalpa Pratyakṣa
- C. Samanyalakshna
- D. Yogaja

39. From the energy security perspective, which of the following energy sources is considered most secure for India?

- A. Geothermal
- B. Hydro
- C. Solar
- D. Wind

40. Given below are two statements, one is labeled as Assertion A and the other is labeled as Reason R

Assertion A:-

VisiCalc, the first spreadsheet software application, is a commonly cited example of one of the first killer applications.

Reason R:-

VisiCalc helped in bringing PCs into the business realm.



In light of the above statements, choose the correct answer from the options given below

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A

41. Which of these decision traps pertains to thinking and planning activities?

- A. NOT keeping records
- B. Overconfidence
- C. Plunging-in
- D. Frame-blindness
- E. Poor frame control

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, C and E only
- C. B, C and D only
- D. C, D and E only

42. Consider 'E' proposition as True and 'I' as False in a square of opposition of proposition and pick the correct answer from the options given below

- A. 'A' is True; 'A' is True
- B. 'I' is False; 'E' is True
- C. 'O' is False; 'E' is False
- D. 'O' is Undetermined; 'O' is Undetermined

43. Given below are two statements:

Statement I:-

You can make the behaviours you teach, more authentic by changing the irrelevant aspects or context of what you are teaching as often as possible and in as many different ways as possible.

Statement II:-

To teach behaviour that is authentic, your lesson need not present content in a way in which it will be used by your learners on assessments, in subsequent grades, and in the world outside your classroom.

In light of the above statements, choose the most appropriate answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

44. Communication means _____ of information.

A. Suppression

B. Exchange

C. Understanding

D. Contextualisation

E. Abstraction

Choose the correct answer from the options given below

A. A, B and E only

B. A, B and C only

C. B, C and D only

D. C, D and E only

45. Which of the following are 'deemed to be university'?

A. NCERT

B. NIEPA

C. Jamia Hamdard

D. Jamia Millia Islamia

E. IIT



Choose the correct answer from the options given below

- A. A and B only
- B. B and C only
- C. C and D only
- D. D and E only

Read the given passage and answer the questions that follow

The social structure of most developing countries no longer consists of a tiny upper class confronting a very large and mainly rural lower class, as earlier stereotypes had it. Intermediate strata have grown and diversified until they are, in atleast some respects (recruitment to position of power, control of major political movements) dominant. In almost all of these countries, however, the 'middle strata' remain minorities (sometimes very small minorities) and have not achieved sufficient homogeneity of characteristics and interests to entitle them to the label of class. The key differences between them and the middle classes in the past of the countries that are now industrialised or developed seem to be the following: first, the much greater importance of the role of formal education in giving access to middle (as well as upper) status; second, the much greater importance of salaried employment, particularly in the public sector, in relation to self-employment in the professions or in small businesses; third, the presence of the 'demonstration effect' from the high income countries continually tending to stretch consumption aspirations beyond income capacity. Independent, frugal,



entrepreneurially minded middle groups can still be identified, and some of them are coping resiliently with economic globalisation and other challenges. However, many factors in the situations in which they have found themselves- technological dependency, the dominance of large-scale enterprises, the bureaucratisation of the rules of the game- generally restricted them to secondary roles in economic evolution. Their educational aspiration for their children have been likely to divert most of these into bureaucratic or professional occupations. Moreover, in many cases, they have belonged to cultural minorities or alien immigrant groups encountering resistance once they become economically conspicuous

46. Which of the following are the restrictive factors for the development of middle groups?

- A. Attitude of independence and frugality
- B. Technological dependency
- C. Secondary role of bureaucracy
- D. Powerful and large business houses

Choose the correct answer from the options given below:

- A. A and B only
- B. B and C only
- C. B and D only
- D. C and D only

47. The passage is focused on

- A. Developmental options of the intermediate strata
- B. The need for economic globalization
- C. The rules of bureaucratization
- D. The secondary roles of economic evolution

48. The present-day social structure in developing countries is punctuated by

- A. A growing intermediate stratum
- B. A small group of upper class
- C. A vast mass of rural class
- D. Stereotypical classes

49. What do you understand by 'demonstration effect' as mentioned in the passage?

- A. Control of power positions
- B. Imitation of consumption aspirations of rich countries beyond one's income
- C. Mobility from low income group to high income group
- D. Public sector salaried employment as a goal

50. In the industrialized countries, people attained the status of the middle class

because of access to

- A. Areas of self-employment
- B. Employable economic sectors
- C. Formal education
- D. Special minority tag



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Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	C	11	A	21	D	31	A	41	D
2	C	12	B	22	B	32	B	42	B
3	C	13	C	23	C	33	A	43	C
4	C	14	A	24	A	34	C	44	C
5	B	15	C	25	C	35	D	45	B
6	A	16	D	26	C	36	B	46	C
7	A	17	B	27	D	37	C	47	A
8	D	18	D	28	A	38	A	48	A
9	B	19	B	29	A	39	C	49	B
10	B	20	B	30	A	40	C	50	C

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QUESTION PAPER-2

50 Questions

Based on the data in the table, answer the questions that follow

The following table presents the percentage breakup of employees and the ratio of male to female employees working in five different organisations (A to E).

There is a total number of 35,000 employees working in all five organisations.

Organisation-wise Breakup of Employees

Organisation	Percentage (%) of employees	Ratio of Male and Female employees
A	18%	3:7
B	22%	11:9
C	31%	3:2
D	15%	2:3
E	14%	1:3

1. The total number of employees in Organisation C is approximately what percent of the total number of employees in Organisation D?

- A. 147 %
- B. 183 %
- C. 207 %
- D. 312 %



2. What is the sum total of the number of females in Organisation D and the number of males in Organisation E?

A. 4375

B. 4475

C. 4500

D. 4875

3. What is the total number of males in all the five organisations together?

A. 13350

B. 14700

C. 15960

D. 16280

4. What is the difference between the number of females in Organisation E and the number of females in Organisation B?

A. 170

B. 210

C. 300

D. 350

5. What is the ratio of the number of males in Organisation A to the number of males in Organisation C?

A. 18:31

B. 7:27

C. 9:19

D. 9:31

6. Given below are two statements

Statement I: In all interactions, a message is sent and a message is received.

Sometimes teachers believe they are sending one message, but her voices, body language, choice of words, and gestures may communicate a different message.

Statement II: To deal with cyber bullying, parents should be encouraged to keep computers in a public room in the house.

In light of the above statements, choose the most appropriate answer from the options given below:

A. Both Statement I and Statement II are correct

B. Both Statement I and Statement II are incorrect

C. Statement I is correct but Statement II is incorrect

D. Statement I is incorrect but Statement II is correct



7. The rationalistic mode of knowledge accepts the rules of

- A. Authority
- B. Legality
- C. Logic
- D. Manipulation

8. Which of the following reliability techniques are used in qualitative research?

- A. Diachronic reliability
- B. Quixotic reliability
- C. Synchronic reliability
- D. Holsti's constant
- E. Chronbach's alpha

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, C and E only
- C. B, C and D only
- D. C, D and E only

9. Match List I with List II

List I	List II
A. SāmānyalakṣaṇaPratyakṣa	I. Intuitive perception of all objects- past, distant and future due to supernormal powers generated by meditation
B. JñānaLakṣana Pratyakṣa	II. When objects are not actually present to sense but are conveyed to it through a special medium
C. YogajPratyakṣa	III. Perception of an object which is in contact with sense through previous knowledge of itself
D. AlaukikaPratyakṣa	IV. The perception of a whole class of objects through a generic property

Choose the correct answer from the options given below:

A. A - I, B - III, C - II, D - IV

B. A - II, B - I, C - III, D - IV

C. A - III, B - II, C - I, D - IV

D. A - IV, B - III, C - I, D - II



10. Match List I with List II

List I	List II
Disease	Mode of spread
A. Cholera	I. Lack of water to maintain cleanliness
B. Trachoma	II. Involves water contact but not ingestion
C. Schistosomiasis	III. Ingestion of polluted water
D. Dengue	IV. Requires host

Choose the correct answer from the options given below:

A. A - I, B - III, C - II, D - IV

B. A - II, B - III, C - IV, D - I

C. A - III, B - I, C - II, D - IV

D. A - III, B - I, C - IV, D - II

11. The example 'sound is eternal because it is caused' represents which of the following Hetvabhasa

A. Ashrayāsiddha

B. Kālātita

C. Svarūpāsiddha

D. Viruddha



12. Given below are two statements

Statement I: -

Tablet computers have touch screens.

Statement II: -

A tablet computer has a keyboard.

In light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

13. If the wind speeds increase from 4.0 m/s to 5.0 m/s, the power output from an ideal windmill will increase by a factor of about

- A. ~4
- B. ~5
- C. ~2
- D. ~3

14. What number should replace the question mark(?)?

3529, 64, 9817, 115, 3257, ?

A. 126

B. 146

C. 89

D. 98

15. Media kits are used in

A. Classroom communication

B. Confidential communication

C. External communication

D. Internal communication

16. Which among the following are components of decision traps to illustrate what needs to be a possible evaluatory framework to monitor the learning process?

A. Overconfidence

B. Coaching

C. Frame blindness

D. Taking shortcuts

E. Persistent misconception

Choose the correct answer from the options given below:

- A. A, C and D only
- B. A, D and E only
- C. B, C and D only
- D. B, D and E only

17. Information provided before sending the primary message is known as

- A. Feed forward
- B. Indicator
- C. Intro
- D. Pre-message

18. What fraction (%) of the total primary energy used in India is derived from biomass?

- A. 22%
- B. 32%
- C. 42%
- D. 56%

19. Match List I with List II

Consider the following in the context of the Square of Opposition of Propositions

List I	List II
Propositions	Square of Opposition
A. If 'A' is False	I. 'A' and 'T' are False
B. If 'E' is True	II. 'E' is False; 'I' is True
C. If 'T' is False	III. 'E' and 'O' are True
D. If 'O' is True	IV. 'E' and 'I' are Undetermined

Choose the correct answer from the options given below:

- A. A - I, B - II, C - III, D - IV, Option ID :- 8181
- B. A - II, B - III, C - IV, D - I, Option ID :- 8182
- C. A - III, B - I, C - II, D - IV, Option ID :- 8183
- D. A - IV, B - I, C - III, D - II, Option ID :- 8184

20. In which year did the first commitment period of the Kyoto Protocol come to an end?

- A. 2008
- B. 2011
- C. 2012
- D. 2014

21. Non-verbal communication makes use of-

- A. Behaviour to generate meanings
- B. Emotional meanings
- C. A non-clear system of rules
- D. Verbal finesse
- E. Clarity in abstraction

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, B and E only
- C. B, C and D only
- D. C, D and E only

22. In CBCS, Ability Enhancement Courses are of two kinds. They are:

- A. Ability Enhancement Compulsory Courses
- B. Skill Enhancement Compulsory Courses
- C. Ability Enhancement Elective Courses
- D. Skill Enhancement Elective Courses
- E. Skill Enhancement Courses

Choose the correct answer from the options given below:

- A. A and C only
- B. A and D only
- C. A and E only
- D. A and B only

23. What does NIRF stand for?

- A. National Institute of Ranking Federation
- B. National Institute of Ranking Framework
- C. National Institutional Ranking Federation
- D. National Institutional Ranking Framework

24. Given below are two statements

Statement I: -

People use non-verbal cues more than verbal cues.

Statement II: -

Non-verbal cues have better believability than spoken words.

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

25. Which one of the following Sustainable Development Goals (SDGs) is related to sustainable consumption and production patterns?

- A. SDG 10
- B. SDG 11
- C. SDG 12
- D. SDG 9

26. "Contagious" spreading of behaviours through imitation, is known as

- A. Norm effect
- B. Random effect
- C. Ripple effect
- D. Scripted effect

27. Which of the following statements about desktop and laptop computers are TRUE?

- A. Most modern laptop computers have built-in webcams
- B. Desktop computers are not very portable
- C. All desktop computers have built-in touchpad
- D. Laptop computers are rarely supplied with a mouse

Choose the correct answer from the options given below:

- A. A, B and D only
- B. A, B and C only
- C. A, B, C and D
- D. B, C and D only

28. What is the name of the score the student would get if the measurements were completely accurate and error-free?

- A. I-score
- B. Neutral score
- C. True score
- D. Z-score

29. Which of the following are the essential characteristics of the case study method?

- A. Negatively oriented
- B. Appreciation oriented
- C. Particularistic
- D. Descriptive
- E. Inductive

Choose the correct answer from the options given below:

- A. A, B and E only
- B. A, B and C only
- C. B, C and D only
- D. C, D and E only

30. Name the fallacy committed in the argument

All dogs are mammals.

No cats are dogs.

Therefore, no cats are mammals.

Choose the correct answer from the options given below:

- A. Existential Fallacy
- B. Illicit Major
- C. Illicit Minor
- D. Undistributed Middle

31. Ravi's salary is increased by 20%. On the increased salary, the tax rate is 10% higher. The percentage increase in tax liability is

- A. 20 %
- B. 22 %
- C. 23 %
- D. 24 %

32. A man weighs 75% of his own weight plus 39 lbs. How much does he weigh?

- A. 156 lbs
- B. 160 lbs
- C. 165 lbs
- D. 166 lbs

33. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: -

A good computer networking solution can be very much beneficial for your business.

Reason R: -

With computer networking, you can cut back on costs and allow for efficient use of resources.

In light of the above statements, choose the correct answer from the options given below:

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A

34. Match List I with List II

Ericson's Psycho-social development	Stage
A. Intimacy vs. Isolation	I. Normally after retirement
B. If 'E' is True	II. Much of adulthood
C. If 'T' is False	III. During adolescence
D. If 'O' is True	IV. During the 20s

Choose the correct answer from the options given below:

A. A - I, B - II, C - III, D - IV

B. A - II, B - III, C - IV, D - I

C. A - III, B - IV, C - I, D - II

D. A - IV, B - I, C - II, D - III



35. Match List I with List II

List I	List II
Scale	Characteristics
A. Arbitrary Scale	I. Attitude statements are decided by judges
B. Thurstone Scale	II. Summated ratings
C. Likert Scale	III. Consists of seven spaces between two bipolar adjectives
D. Semantic differential	IV. Questions are selected on an a priori basis

Choose the correct answer from the options given below:

A. A - I, B - II, C - III, D - IV

B. A - II, B - III, C - IV, D - I

C. A - III, B - IV, C - I, D - II

D. A - IV, B - I, C - II, D - III

36. Arrange the following optical storage devices in increasing order of their storage capacity.

- A. DVD
- B. CD-ROM
- C. Blu-Ray

Choose the correct answer from the options given below:

- A. A, B, C
- B. A, C, B
- C. B, A, C
- D. B, C, A

37. Answer the following statements?

- A. At 5% rate of simple interest, a certain sum will be doubled in 15 years.
- B. A sum becomes double in 10 years. The annual rate of simple interest is 12%.
- C. ₹1000 will become ₹1331 in 3 years at compound interest rate of 10% per annum.

Which of the above statements is/are CORRECT?

- A. A and B only
- B. A and C only
- C. B and C only
- D. C only

38. The term 'open learning' represent approaches that focus on
- A. Opening access to education and training provision
 - B. Freeing learners from the constraints of time and place
 - C. Learning and evaluation without a specified curriculum
 - D. Offering flexible learning opportunities to individuals and groups of learners
 - E. Making students free from any educational loads

Choose the correct answer from the options given below:

- A. A, B and D only
- B. A, B and E only
- C. A, B and C only
- D. B, C and D only

39. India has been attracting only a fraction of international students because of

- A. Lack of residential accommodation for foreign students
- B. Difficulties in recognition of international qualification
- C. Rigid admission process
- D. Lack of enthusiasm among teachers
- E. Lack of enthusiasm among students

Choose the correct answer from the options given below:

- A. . A and B only
- B. B and C only
- C. C and D only
- D. D and E only

40. Given below are two statements

Statement I: -

Qualitative research is impressionistic and subjective.

Statement II: -

Quantitative research has a higher level of possibility of generalising the findings.

In light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

41. Which of the following is a private university?

- A. Anna University
- B. BITS pilani
- C. Burdwan University
- D. IIT

42. Given below are two statements

Statement I:-

A 60 m long train passes a 90 m platform in 10 seconds. The speed of the train is 45 km/hour.

Statement II:-

If the ratio of the speeds of A and B is a:b, then the ratio of the time taken by them to cover the same distance is a:b.

In light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false



43. A competent communicator is

- A. Culturally neutral
- B. Culturally sensitive
- C. Totally ethical
- D. Situationally ethical
- E. An effective listener

Choose the correct answer from the options given below:

- A. A, B and C only
- B. B, C and D only
- C. B, C and E only
- D. C, D and E only

44. From the options given below, pick the CORRECT sequence in the context of constituent parts of inference

- A. Hetu, Udāharaṇa, Nigamana, Upanaya, Pratijña
- B. Nigamana, Hetu, Udāharaṇa, Upanaya, Pratijña
- C. Pratijña, Hetu, Udāharaṇa, Upanaya, Nigamana
- D. Pratijña, Hetu, Upanaya, Udāharaṇa, Nigamana



45. Match List I with List II

List I	List II
(Computer Terms)	(Examples)
A. Operating system	I. Pentium
B. Application software	II. Linux
C. Processor	III. Router
D. Network Device	IV. Anti-virus

Choose the correct answer from the options given below:

A. A - I, B - IV, C - II, D - III

B. A - II, B - IV, C - I, D - III

C. A - II, B - IV, C - III, D - I

D. A - III, B - II, C - I, D - IV

Read the given passage and answer the questions that follow

A global light pollution map developed by a group of researchers has ranked New Delhi, Kolkotta and Bengaluru as the three cities with the highest light pollution in India. It should serve to alert us to the looming problem of light pollution about which we are not only doing so little to prevent but are also unaware about. Light pollution refers to the harmful impact of artificial outdoor lighting. While artificial outdoor lighting is needed in the form of street lights it increases safety on roads and enables us to study and work in the dark, its use for flood lighting, illumination, advertising, etc has grown manifold in recent decades, resulting in the problem of light pollution. Studies show that the brightness from outdoor lights has risen steadily across India over a 20year period, with New Delhi, Telangana, Maharashtra, Karnataka and Uttar Pradesh showing a "very high light intensity pollution" rise between 1993 and 2013.

The use of excessive artificial outdoor lighting has several harmful implications not just for human health but for the wellbeing of animals, birds,

insects and our environment. Use of artificial lights at night gives us more working and studying hours but it results in the problem of 'loss of night.' We find it difficult to fall asleep when the glow of streets enter our homes. It impacts our sleep-wake rhythm, which could have serious implications for our moods and health. Illumination of gardens impacts animals and insects too. It is nocturnal insects and birds that suffer the most due to light pollution. It makes them disoriented, impacts the reproduction and thus their populations.

46. Excessive hours of artificial light adversely impacts our

- A. Work schedule
- B. Sleep cycle
- C. Study hours
- D. Moods and health

Choose the correct answer from the options given below

- A. A and B only
- B. B and C only
- C. B and D only
- D. C and D only



47. One of the major pollutants is in the form of
- A. Home lights
 - B. Illuminated advertising
 - C. Indoor lights
 - D. Street lights
48. The loss of night, as mentioned in the passage, will lead to
- A. Increase in education
 - B. More human productivity
 - C. The altered activities of nocturnal creatures
 - D. The well-being of human population
49. The light pollution map is related to adverse effects of
- A. Outdoor artificial light
 - B. Rural electricity projects
 - C. Sunlight
 - D. Urban electricity projects

50. Light pollution intensity refers to

- A. Increased outdoor brightness during night time
- B. Manifold hike in use of electricity in rural areas
- C. More and more use of electricity in urban areas
- D. Use of artificial light for road safety



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Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	C	11	D	21	A	31	B	41	B
2	A	12	D	22	C	32	A	42	A
3	C	13	C	23	D	33	C	43	C
4	B	14	C	24	B	34	D	44	C
5	D	15	C	25	C	35	D	45	B
6	A	16	A	26	C	36	C	46	C
7	C	17	A	27	A	37	D	47	B
8	A	18	B	28	C	38	A	48	C
9	D	19	D	29	D	39	A	49	A
10	A	20	C	30	B	40	B	50	A

*This Answer key is tentatively released by NTA – NET



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UGC - NTA - NET - PAPER 1 - 2021

QUESTION PAPER-3

50 Questions

The table below presents the unit sales of the ZZ999' Motorcycle in six European Countries over a six month period from January - 2020 to June 2020. These motorcycles are imported into each country by a main dealer. Based on the data in the table, answer the question: (1-5)

Country - wise Sale of Motorcycles

Country	January	February	March	April	May	June	Total
Germany	34	47	45	54	56	60	
UK	40	44	36	47	47	46	
France	37	32	32	32	34	33	
Belgium	14	14	14	16	17	14	
Spain	29	29	28	31	29	31	
Italy	22	24	24	26	25	23	
Total							

1. What percentage (%) of the total imports is accounted for by the three smallest importers?

- A. 37.1 %
- B. 14.8 %
- C. 40.0 %
- D. 35.2 %



2. What percentage (%) of the overall total was sold to the German importer?

- A. 22.0 %
- B. 25.4 %
- C. 25.8 %
- D. 24.6 %

3. Which month showed the biggest increase in total sales from the previous month?

- A. February
- B. March
- C. April
- D. May

4. What percentage (%) of the overall total of motorcycles was sold in May?

- A. 24.1 %
- B. 25.6 %
- C. 27.1 %
- D. 17.8 %

5. In the month of February, what percentage (%) of the monthly total was sold to the biggest importer?

- A. 24.7 %
- B. 23.1 %
- C. 36.5 %
- D. 51.1 %

6. Given below are two statements, One is labelled as Assertion (A) and the other is labelled as Reason (R) :

Assertion (A):-

Doing Inter - disciplinary research is more challenging than that in within any single discipline.

Reasons (R) :-

It is not possible to combine knowledge from two disciplines.

In the light of the above statements, choose the correct answer from the options given below :

- A. Both (A) and (R) are true and (R) is the correct explanation of (A)
- B. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- C. (A) is true but (R) is false
- D. (A) is false but (R) is true



7. International Solar Alliance Framework Agreement entered into force in the year

- A. 2015
- B. 2017
- C. 2016
- D. 2018

8. Which of the following are true case studies?

- (A) Easy to generalize the findings
- (B) Normally Selects one case for analysis at a time
- (C) Highly quantitative in character
- (D) Integrates different perspectives
- (E) Adopts the most consequent approach to the particular

Choose the correct answer from the options given below :

- A. (A), (B), (C) only
- B. (B), (C), (D) only
- C. (B), (D), (E) only
- D. (C), (D), (E) only

9. Global Citizenship Education (GCED) aims at

- (A) Making students to become members of U.N.O.
- (B) Helping students to understand contemporary global challenges.
- (C) Making students to become promoters of peaceful societies.
- (D) Making students eligible to join foreign services.
- (E) Making students eligible to become diplomats.

Choose the correct answer from the options given below :

- A. (A), (B) only
- B. (B), (C) only
- C. (C), (D) only
- D. (D), (E) only

10. Empirical studies have shown that the women students are underrepresented in the disciplines such as science, technology, engineering, and mathematics (STEM). Its possible reasons could be

- (A) Women students do not feel comfortable with STEM subjects.
- (B) Women students cannot excel in STEM subjects
- (C) Women students lack in aptitude in STEM subjects
- (D) Women students face threats due to negative stereotypes.
- (E) Women students are not encouraged by the parents to join STEM disciplines.



Choose the correct answer from the options given below :

- A. (A), (C), (E) only
- B. (B), (E) only
- C. (C), (D) only
- D. (D), (E) only

11. What is the name for the type of checklist or rating scale that expresses criteria on some point-scale to determine the quality of the performance of a student?

- A. Diffusion
- B. Rubrics
- C. Track system
- D. Deduction

12. Perspective taking in communication supports

- (A) Behavioural rigidity
- (B) Openness
- (C) Sharing of information
- (D) Trust
- (E) Secrecy



Choose the correct answer from the options given below :

- A. (A), (B), and (C) only
- B. (B), (C), and (D) only
- C. (C), (D), and (E) only
- D. (A), (C), and (E) only

13. Match List I with List II

List I	List II
Concept	Description
(A) Isomorphism	(I) Use of both qualitative and quantitative methods
(B) Triangulation	(II) Premise that the simplest method is most preferable
(C) Principle of Parsimony	(III) A property of a population
(D) Parameter	(IV) Similarity of structure

Choose the correct answer from the options given below :

- A. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- B. (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- C. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- D. (A)-(IV), (B)-(I), (C)-(II), (D)-(III)



14. Given below are two statements :

Statement I:-

If the interest on a sum borrowed for a certain period is reckoned uniformly, then it is called compound interest.

Statement II :-

The money borrowed or lent out for a certain period is called simple interest.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true

15. Sagun purchased a smartphone at $9/10^{\text{th}}$ of its selling price and sold it at 8 % more than its selling price. Her gain is

- A. 10 %
- B. 12 %
- C. 18 %
- D. 20 %

16. Looking at a photo of a man, Ravi said, 'His mother is the wife of my Father's son. I have no brothers and sisters'.

At whose photo was Ravi looking?

- A. His Cousin
- B. His Son
- C. His Uncle
- D. His nephew

17. In a classroom, transforming verbal and non-verbal signs back into messages is known as

- A. Feedback
- B. Encoding
- C. Decoding
- D. Reverse communication



18. Given below are two statements:

Statement I: -

USB drives are also known as flash drives.

Statement II:-

Device used by banks to automatically read those unusual numbers on the bottom of cheques and deposit slips is known as MICR.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true

19. In Banabhatta's Kadambri, good education has been described as having knowledge of 64 Kalaa or arts. Among these 64 Kalaa, which among the following subjects were included

- A. Only arts such as Singing and Painting
- B. Only arts and vocational courses
- C. Arts, vocational courses and Medicine
- D. Arts, vocational courses, Engineering, Medicine, Mathematic, Science and Many other subjects.



20. The sequence of the stages of communication process is :

- (A) Level of acceptance
- (B) Transmission of cognitive data
- (C) Message reception
- (D) Understanding
- (E) Reaction

Choose the correct answer from the options given below :

- A. (A),(B),(C),(D),(E)
- B. (B), (C), (D), (E), (A)
- C. (C),(E),(D),(A),(B)
- D. (B), (C), (D), (A), (E)

21. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A):-

The positive feedback from the teacher is necessary to motivate students.

Reasons (R) :-

Continuous criticism of students is the best method to make them realize positive outcomes in their pursuit of knowledge.

In the light of the above statements, choose the answer from the options given below:



- A. Both (A) and (R) are true and (R) is the correct explanation of (A)
- B. Both (A) and (R) are true but (R) is NOT the correct explanation of (A)
- C. (A) is true but (R) is false
- D. (A) is false but (R) is true

22. Which of the following Pollutants has the least residence time in atmosphere?

- A. Nitric Oxide
- B. Nitrous Oxide
- C. Chloroflorocarbons
- D. Methane

23. Match List I with List II

- | List I | List II |
|------------------------------|-----------------------|
| (A) Proprietary LMS | (I) MOODLE |
| (B) Open source LMS | (II) Google classroom |
| (C) Cloud based LMS | (III) Black board |
| (D) Data collection and quiz | (IV) Google form |

Choose the correct answer from the options given below :

- A. (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- B. (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- C. (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- D. (A)-(III), (B)-(I), (C)-(II), (D)-(IV)



24. What is the name of the mental process that assists learners to reflect on their thinking by internalizing, understanding, and recalling the content to be learned?

- A. Meta cognition
- B. Rubrics
- C. Peer tutoring
- D. Debriefing

25. Given below are two statements :

Statement I: -

A holistic and multi - disciplinary education aims to develop intellectual, aesthetic, social, physical, emotional and moral capacities of students.

Statement II : -

In 21st Century persons require only intellectual capacity to be successful.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true



26. Given below are two statements :

Statement I:-

The terms 'true' and 'false' apply to arguments.

Statement II :-

The terms 'true' and 'false' apply to statements.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true.

27. Given below are two statements:

Statement I:-

Social scientists belonging to the verstehen tradition do not accept the idea of predicting human behavior in mechanistic terms.

Statement II:-

It is asserted that the main aim of social science research is to promote human understanding.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true



28. Match List I with List II

List I	List II
(Name of Company)	(Founder)
(A) Apple Inc.	(I) N.R. Narayana Murthy
(B) Microsoft Inc.	(II) Steve Jobs
(C) Infosys Ltd.	(III) Bill Gates
(D) Airtel	(IV) Sunil Bharti Mittal

Choose the correct answer from the options given below :

- A. (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- B. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- C. (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- D. (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

29. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): -

The argument "Everything is nameable because it is knowledgeable" is fallacious.

Reasons (R) :-

There is nothing that is not nameable and I cannot find a place where, because of the absence of the major term, the middle term is also absent.



In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A)
- B. Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- C. (A) is correct but (R) is not correct
- D. (A) is not correct but (R) is correct

30. Socialized medicine is not recommended because it would result in reduction of the overall quality of medical care. In addition, it might well bankrupt the federal treasury. This is the whole case against socialized medicine.

"What is the conclusion in the above argument?"

- A. Socialized medicine is not recommended.
- B. Socialized medicine would result in reduction in the overall quality of medical care.
- C. Socialized medicine might bankrupt the federal treasury.
- D. There are overwhelming arguments against socialized medicine.

31. Which of the following are software?

- (A) Adobe
- (B) Web browser
- (C) Compiler
- (D) Device Driver



Choose the correct statements from above :

- A. (A), (B) and (C) only
- B. (B), (C) and (D) only
- C. (A), (C) and (D) only
- D. (A), (B) and (D) only

32. Identify the sequence of methodological steps in focus group research :

- (A) Select a sample
- (B) Prepare the focus group material
- (C) Define the problem
- (D) Decide the number of groups needed
- (E) Prepare the mechanics of the study

Choose the correct answer from the options given below :

- A. (A), (E), (D), (C), (B)
- B. (C), (A), (D), (E), (B)
- C. (B),(C),(A),(D),(E)
- D. (D), (A), (C), (B), (E)



33. Identify the correct order of the following INTEL processors in the decreasing order of speed.

(A) 80486

(B) 8085

(C) Dual Core

(D) Pentium-III

Choose the correct answer from the options given below :

A. (D), (C), (B), (A)

B. (C), (D), (A), (B)

C. (C), (D), (B), (A)

D. (B), (D), (C), (A)

34. With respect to Computers, which of the following groups consists of volatile memory only?

A. RAM and Pen Drive

B. Hard Disk and ROM

C. RAM and Cache

D. Cache and ROM



35. Given below are two statements :

Statement I:-

The fallacy of contradictory middle (viruddha) occurs in an argument when the middle term is found both where the major is found and where it is not found.

Statement II :-

The fallacy of contradictory middle (viruddha) is committed in an argument when the middle term is found only where major term is absent.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true

36. Match List I with List II With respect to completion of sentences

List I	List II
(A) The sum of first forty five natural number is	(I) 19
(B) The least prime number is	(II) 75
(C) The total number of prime numbers less than 70 is	(III) 1035
(D) On dividing 4150 by a certain number the quotient is 55 and the remainder is 25 . The divisor is	(IV) 2



Choose the correct answer from the options given below :

- A. (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- B. (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
- C. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- D. (A)-(II), (B)-(IV), (C)-(III), (D)-(I)

37. Match List I with List II

List I	List II
Type of communication	Characteristic feature
(A) Network communication	(I) Formal and Planned
(B) Mass communication	(II) Creates identity and unique dynamics
(C) Public communication	(III) Inter-dependent relations
(D) Small group communication	(IV) Anonymous audience

Choose the correct answer from the options given below :

- A. (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- B. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- C. (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- D. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)



38. If CHARCOAL is coded as 45164913 , how will you code COALCAR?

A. 4913413

B. 6194314

C. 3194416

D. 4913416

39. According to WHO standards, the pesticide content (Lindane or DDT) in drinking water should not exceed

A. $1 \mu \text{gL}^{-1}$

B. $2 \mu \text{gL}^{-1}$

C. $5 \mu \text{gL}^{-1}$

D. $10 \mu \text{gL}^{-1}$

40. Given below are two statements :

Statement I:-

In free version of google meet (through your personal Gmail / Google account you can record your session / class.

Statement II :-

To join an online class / session conducted via Google Meet you need to login to your Google account.



In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

41. Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R) :

Assertion (A):-

For Naiyāyikas, logic is not formalized and divorced from existence.

Reasons (R) :-

Naiyāyika's interest in logic is for finding out the truth about the existent world, but not merely for finding out the instrument of thought for their own sake.

In the light of the above statements, choose the most appropriate answer from the options given below :

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A)
- B. Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- C. (A) is correct but (R) is not correct
- D. (A) is not correct but (R) is correct



42. Which of these decision traps pertain to personal qualities?

- (A) Frame blindness
- (B) Overconfidence
- (C) Taking shortcuts
- (D) Being unsystematic
- (E) Not keeping records

Choose the correct answer from the options given below :

- A. (A), (B), (C) only
- B. (B), (C), (D) only
- C. (A), (C), (D) only
- D. (C), (D), (E) only

43. Scientific research has the ultimate goal of explaining any phenomenon by

- A. Conditional laws
- B. Laws of uniqueness
- C. Laws of intuition
- D. Laws of generalisation

44. According to one of the Sustainable Development Goals, the per capita global food waste at the retail and consumer levels is to be reduced to the extent of

- A. 1/ 2 (Half)
- B. 1/ 3 (One third)
- C. 1/ 4 (One fourth)
- D. 1/ 10 (One tenth)



45. Noise levels (db) are referenced to the human hearing threshold at a frequency of

- A. 50 Hz
- B. 100 Hz
- C. 1 Hz
- D. 4 Hz

Read the passage and answer question: (46-50)

The need for a theory of justice relates to the discipline of engagement in reasoning about a subject on which it is as eminent author Burke noted, very difficult to speak. It is sometimes claimed that justice is not a matter of reasoning at all; it is one of being appropriately sensitive and having the right note for injustice. It is easy to be tempted to think along these lines. When we find, for example, a raging famine, it seems natural to protest rather than reason elaborately about justice and injustice. And yet a calamity would be a case of injustice only if it could have been prevented, and particularly if those who could have undertaken preventive action had failed to try. Reasoning in some form cannot but be involved in moving from the observation of a tragedy to the diagnosis of injustice.

Furthermore, cases of injustice may be much more complex and subtle than the assessment of an observable calamity. There could be different arguments suggesting disparate conclusions, and evaluations of justice may be anything but straight forward. The avoidance of reasoned justification often comes not from indignant protestors but from placid guardians of order and



justice. Reticence has appealed throughout history to those with a governing role, endowed with public authority, who are unsure of the grounds for action, or unwilling to scrutinize the basis of their policies. The requirements of a theory of justice include bringing reason into play in the diagnosis of justice and injustice. Over hundreds of years, writers on justice in different parts of the world have attempted to provide the intellectual basis for moving from a general sense of injustice to particular reasoned diagnosis of injustice.

46. In the case of a calamity, it should lead to a feeling of injustice when

- A. It is left unobserved
- B. It affects vulnerable people
- C. Concerned authorities did not make an attempt to prevent it
- D. Concerned authorities did not know how to prevent it

47. What is central to the theory of justice?

- A. Reasoning on a subject
- B. Difficult interpretations
- C. Subjective engagement
- D. Identification of an issue

48. A particular diagnosis of injustice will lead to a theory of justice based on

- A. A general sense of the issues
- B. Empirical analysis of injustice
- C. Intellectual evaluations
- D. Historical traditions



49. Avoidance of reasoned justification can be sourced to

- A. Protectors seeking justice
- B. People unaffected by policy - decisions
- C. The public not interested in justice
- D. Public authority

50. What is the simplistic view about justice?

- A. It is a matter of reasoning
- B. It is being appropriately made aware of injustice
- C. It is of very little significance
- D. It is a matter of protest



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Answer Key

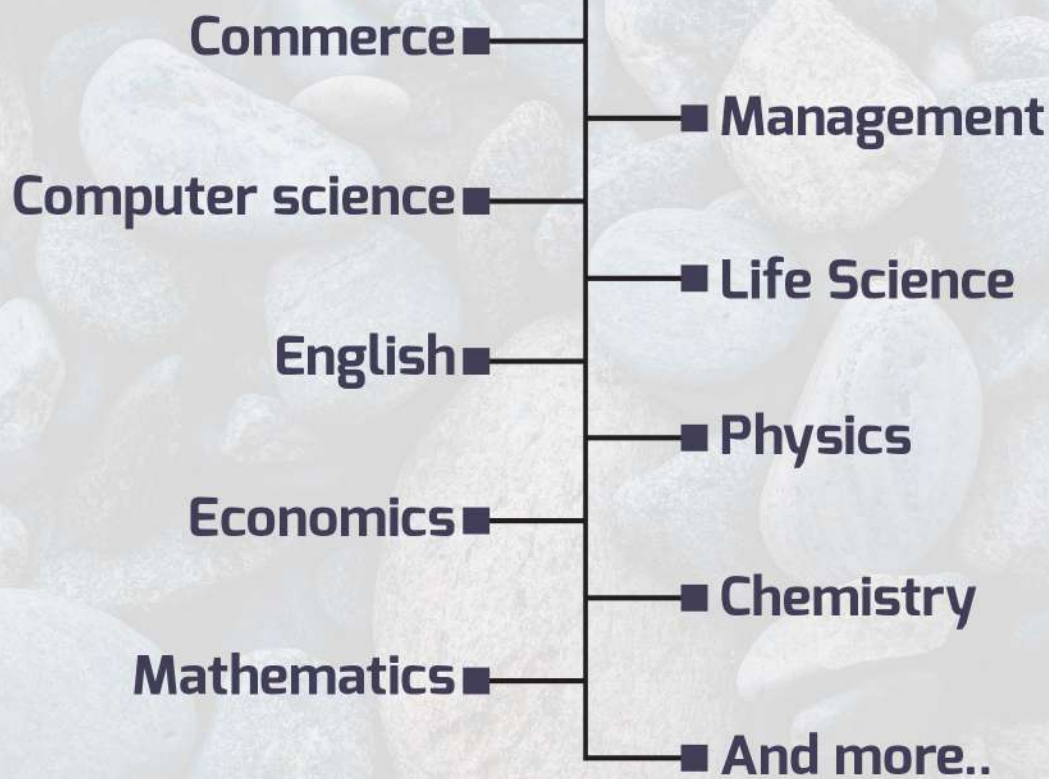
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2	B	12	B	22	A	32	B	42	B
3	C	13	D	23	D	33	B	43	D
4	D	14	B	24	A	34	C	44	A
5	A	15	D	25	C	35	D	45	C
6	C	16	B	26	D	36	C	46	C
7	B	17	C	27	A	37	B	47	A
8	C	18	A	28	D	38	D	48	C
9	B	19	D	29	A	39	B	49	D
10	D	20	D	30	A	40	D	50	B

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QUESTION PAPER-4

50 Questions

Study the table carefully and answer the question that follows. (1-5)

The following table has 5 items along with number of items brought and sold for each quarter for each item.

(B - Item brought initially in the quarter, S - Item sold in that quarter)

Quarter ->	Q1		Q2		Q3		Q4	
Items	B	S	B	S	B	S	B	S
A	300	170	400	335	370	320	410	370
B	270	180	280	200	350	330	380	340
C	280	210	350	310	250	200	250	200
D	320	250	340	290	280	180	280	240
E	325	275	370	315	320	170	265	190

1. Find out the average of difference of item brought and item sold for Quarter

- A. 81
- B. 82
- C. 83
- D. 84

2. Which item has the minimum average items sold for all quarters?

- A. B
- B. C
- C. D
- D. E

3. Which quarter has the minimum bought to sold ratio?

- A. Q1
- B. Q2
- C. Q3
- D. Q4

4. What is the percentage increase of items sold from Q1 to Q2?

- A. 31.36
- B. 31.53
- C. 32.74
- D. 33.64

5. Which quarter has maximum number of items sold?

- A. Q1
- B. Q2
- C. Q3
- D. Q4

6. What is gasohol?

- A. A type of chemical for the decomposition of stubbles
- B. A type of chemical used for chemical remediation of waste water
- C. An instrument used to detect gas leakages in factories
- D. Mixture of gasoline and ethanol

7. Given below are two statements

Statement I: -

Working memory has a development trajectory- it increases throughout childhood and it decreases on ageing

Statement II: -

Working memory does not get adversely affected by ongoing stresses.

In light of the above statements, choose the most appropriate answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

8. Which of the following pramanas are accepted by the Nyāya School?

- A. Pratyakṣa
- B. Anumāna
- C. Upamāna
- D. Śabda
- E. Arthāpatti



Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, B and D only
- C. A, B, C and D only
- D. A, B, D and E only

9. Given below are two statements, one is labeled as Assertion A and the other is labeled as Reason R

Assertion A :-

Causal relationship between the independent variable and the dependent variable cannot be established beyond doubt, if the researcher fails to control the conditions.

Reason R :-

A set of confounding variables are likely to influence the value of the dependent variable, if they are not controlled by the researcher.

In light of the above statements, choose the most appropriate answer from the options given below

- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A/(A)
- D. Both A and R are correct but R is NOT the correct explanation of A/(A)

10. Which of the following is termed as the Magna Carta of English Education in India.

- A. Elphinstone's minute
- B. Macaulay's minute
- C. Wardha education scheme
- D. Wood's Despatch

11. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: -

The decibel level for a given loudness may be different at different frequencies in the audible range.

Reason R: -

The human ear has a differential frequency response.

In light of the above statements, choose the correct answer from the options given below

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A

12. The interactive content in modern books may contain a two-dimensional code (2D pattern of dark rectangles) called QR codes. What is the full form of QR?

- A. Quality Reader
- B. Quality Record
- C. Quick Response
- D. Quick Router

13. Which one of the following is not a barrier variable in communication?

- A. Climate
- B. Culture
- C. Curiosity
- D. Eye-contact

14. Choice Based Credit System allows students to choose which of the following?

- A. Interdisciplinary
- B. Intradisciplinary
- C. Skill-oriented papers
- D. Open-book examinations
- E. Cataloguing services

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, D and E only
- C. B, C and D only
- D. C, D and E only

15. What comes next in the following sequence?

$1/2$ $2/6$, $4/18$, $8/54$?

- A. $10/108$
- B. $16/106$
- C. $16/162$
- D. $24/108$

16. Match List I with List II

List I	List II
Disaster Management Cycle Components	Explanation
A. Prevention	I. Land – use planning
B. Preparedness	II. Rescue
C. Recovery	III. Risk assessment
D. Response	IV. Construction

Choose the correct answer from the options given below:

- A. A -I , B -III , C -II , D -IV
- B. A -I , B -III , C -IV , D -II
- C. A -III , B -I , C -II , D -IV
- D. A -III , B -I , C -IV , D -II

17. Which one of the following makes communication ineffective?

- A. Ambiguity
- B. Brevity
- C. Clarity
- D. Sincerity

18. Match List I with List I

List I	List II
Information Processing Model	Developer
A. Inductive thinking	I. Hilda Taba
B. Mnemonics	II. Michael Pressley
C. Advance Organisers	III. Bill Gordon
D. Synetics	IV. David Ausubel

Choose the correct answer from the options given below:

A. A -I , B -II , C -IV , D -III

B. A -II , B -IV , C -III , D -I

C. A -III , B -I , C -II , D -IV

D. A -IV , B -III , C -I , D -II

19. According to the Indian Constitution, some fundamental rights of the citizens can be suspended during

A. Financial emergency

B. National disasters

C. National

D. National emergency

20. Identify the correct sequence of the following storage devices in the descending order of their emergence.

A. DVD

B. CD-ROM

C. Magnetic Tape

D. Floppy Disk

Choose the correct answer from the options given below

- A. A, B, C, D
- B. A, B, D, C
- C. A, C, D, B
- D. B, A, D, C

21. Given below are two statements

Statement I: -

Education for sustainable development has to be related to the process of taking decisions pertaining to economy, politics and natural environment

Statement II: -

Inviting senior citizens to schools and allowing them to speak on the environment of their childhood, may help in developing a concept of sustainable development

In light of the above statements, choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

22. Given below are two statements

Statement I : -

'Twitter' is a microblogging site that is very restricted on the size of the post

Statement II : -

'Wiki' allows readers to edit posts, and entries in it are usually not in chronological order.

In light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

23. Identify the fallacy committed in the argument

Some spaniels are not good hunters.

All spaniels are gentle dogs.

Therefore, no gentle dogs are good hunters.

- A. Fallacy of Exclusive Premises
- B. Fallacy of Four Terms
- C. Fallacy of Illicit Major
- D. Fallacy of Illicit Minor

24. For reservation of the socially disadvantaged sections, the ceiling fixed by the Supreme Court of India is

- A. 28%
- B. 40%
- C. 50%
- D. 55%

25. With respect to computer storage devices, which of the following is/are magnetic storage device(s)?

- A. CD-R
- B. DVD-RW
- C. Flash memory stick
- D. External Hard Drive

Choose the correct answer from the options given below:

- A. A and B only
- B. C and D only
- C. C only
- D. D only

26. Given below are two statements

Statement I: -

Oxidative stress is an imbalance between accumulation of oxygen reactive substances and ability of body to destroy them.

Statement II: -

Oxidative stress is significantly lowered by the presence of oxidants.

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

27. Match List I with List II

List I	List II
A. Grounded Theory	I. Altheide
B. Critical discourse analysis	II. Foucault
C. Thematic analysis	III. Glaser and Strauss
D. Ethnographic content analysis	IV. Braun and Clarke

Choose the correct answer from the options given below:

A. A -I , B -II , C -IV , D -III

B. A -I , B -III , C -IV , D -II

C. A -II , B -IV , C -I , D -III

D. A -III , B -II , C -IV , D -I

28. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: -

Active participation of all students in a classroom is an indicator of the teachers' communication skills.

Reason R: -

Teachers should focus more on classroom management (as discipline matters) than instruction.

In light of the above statements, choose the correct answer from the options given below

A. A is false but R is true

B. A is true but R is false

C. Both A and R are true and R is the correct explanation of A

D. Both A and R are true but R is NOT the correct explanation of A



29. What type of non-volatile memory would most likely store firmware, like a computer's BIOS?

- A. EEPROM
- B. Hard Disk
- C. RAM
- D. Tape Drive

30. Which of the following are the characteristics of a strong hypothesis?

- A. Adequate for its purpose
- B. Potentially testable
- C. Presently testable
- D. Better than its rival hypothesis
- E. Unrelated to the theory

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, C and D only
- C. B, D and E only
- D. C, D and E only

31. The angle made by the minute hand of a clock while moving from 4:40 pm to 6:10 pm is

- A. 450°
- B. 490°
- C. 540°
- D. 610°

32. Match List I with List II

List I	List II
Memory Devices	Memory Types
A. Pen Drive	I. Optical memory
B. Hard Disk	II. Flash Memory
C. CD ROM	III. Magnetic Memory
D. RAM	IV. Volatile Memory

Choose the correct answer from the options given below:

- A. A -II , B -III , C -I , D -IV
- B. A -II , B -III , C -IV , D -I
- C. A -III , B -II , C -I , D -IV
- D. A -IV , B -III , C -II , D -I

33. Identify the fallacy committed in the argument: "Since all humans are mortal, the human race must someday come to an end".

- A. Fallacy of Amphiboly
- B. Fallacy of Composition
- C. Fallacy of Converse Accident
- D. Fallacy of Division

34. Arrange the given objectives for cognitive domain in hierarchical order as the basis of the complexity of the task

- A. Application
- B. Evaluation
- C. Knowledge
- D. Analysis
- E. Synthesis

Choose the correct answer from the options given below

- A. A, E, B, D, C
- B. B, D, C, E, A
- C. C, A, D, E, B
- D. D, B, C, A, E

35. A vendor allows a discount of 16% to his customers and still gains 20%.

The marked price of an item, which costs the vendor ₹ 11900, is

- A. ₹ 14800
- B. ₹ 15700
- C. ₹ 16800
- D. ₹ 17000

36. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:-

The complexity of the social context in which higher education exists in India, very likely, makes systemic reforms impossible

Reason R: -

The inadequacy of infrastructure and the attitude of the academic community to prefer status quo than taking risks, with experiments and innovation that require initiative and considerable efforts, are the principal impediments.

In light of the above statements, choose the most appropriate answer from the options given below

- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A
- D. Both A and R are correct but R is NOT the correct explanation of A

37. Scientists should put aside, their personal beliefs and biases and see the world as it "really" is. Which one of the following philosophical positions supports the above statement?

- A. Constructivism
- B. Inductivism
- C. Positivism
- D. Post-positivism

38. Given below are two statements:

Statement I: -

A moderating variable is a second independent variable that is included because it is believed to have a significant contingent effect on the original independent variable and dependent variable relationship.

Statement II: -

An extraneous variable may conceivably affect a given relationship between the independent variable and the dependent variable.

In light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

39. The target year for achieving the Sustainable Development Goals is

- A. 2020
- B. 2025
- C. 2030
- D. 2035

40. A communication scenario in which two teachers are debating about the curriculum for the 21st century, is an instance of:

- A. Diagonal Communication
- B. Group Communication
- C. Interpersonal Communication
- D. Lateral Communication

41. Given below are two statements

Statement I: -

The product of all the digits on the dial of a telephone is 15840.

Statement II:-

At 10% interest rate, Rs 10000 will become Rs. 13310 in 3 years, when interest is compounded annually.

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

42. Consider the following fractions:

- A. $\frac{8}{9}$
- B. $\frac{9}{11}$
- C. $\frac{2}{3}$
- D. $\frac{7}{9}$
- E. $\frac{7}{11}$

Which of the following is the correct decreasing sequence?

- A. $A > B > C > E > D$
- B. $A > B > D > C > E$
- C. $B > A > C > E > D$
- D. $B > A > D > E > C$

43. In which one of the following types of communication, the data is pushed from a server to a client without client request?

- A. Ancient Technology
- B. Education Technology
- C. Pull Technology
- D. Push Technology



44. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A: -

According to the Nyāya system, the argument "Sound is quality because it is visible is fallacious."

Reason R: -

It commits the fallacy of Svarupāsiddha.

In light of the above statements, choose the most appropriate answer from the options given below:

- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A
- D. Both A and R are correct but R is NOT the correct explanation of A

45. Match List I with List II

List I	List II
Functions of Language	Examples
A. Directive Function	I. That's too bad
B. Expressive Function	II. I apologise
C. Informative Function	III. Close the window
D. Performative Function	IV. New Delhi is the capital of India

Choose the correct answer from the options given below:

- A. A -II , B -I , C -IV , D -III
- B. A -II , B -III , C -I , D -IV
- C. A -III , B -I , C -IV , D -II
- D. A -III , B -IV , C -II , D -I

Read the given passage and answer the following question. (46-50)

Leaders in powerful positions once thought workers should be told what to do and how to do it. They believed strict control was needed for the organization to function efficiently and effectively fixed organizational hierarchies, structured jobs and work processes and detailed procedures, let everyone know that those at the top had power and those at the bottom had none.

Today, the old views of the distribution of power are no longer valid. An emphasis on control serves to squelch motivation, innovation and morale, rather than produce desired results. Today's leaders share power rather than hoard it. They find ways to increase an organization's brain power by getting everyone involved and committed.



46. The example of declining assets (land, building, and machine) is given to

- A. Emphasize the role of employee knowledge and skills
- B. Highlight organizational hierarchy
- C. Indicate command-and-control of leaders
- D. Suggest rising costs of assets

47. Which one of the following reflects the traditional conceptualization of leader?

- A. Commands and controls employees
- B. Creates opportunities for learning for employees
- C. Shares power with employees
- D. Uses employees' knowledge

48. "Today's leaders share power rather than hoard it", means

- A. Leaders always discourage employee initiatives
- B. Leaders distribute responsibilities among workers
- C. Leaders prioritize production over worker satisfaction
- D. Leaders work towards centralization of power



49) What is the theme of this passage?

- A. Diminishing value of assets
- B. Employee empowerment leads to improvement in production
- C. How to get things done from workers
- D. Shift from employee empowerment to control

50) An emphasis on control serves to enhance

- A. Demotivation and maintain status quo
- B. Motivation, innovation and morale
- C. Productivity and profit
- D. Sharing of knowledge



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Answer Key

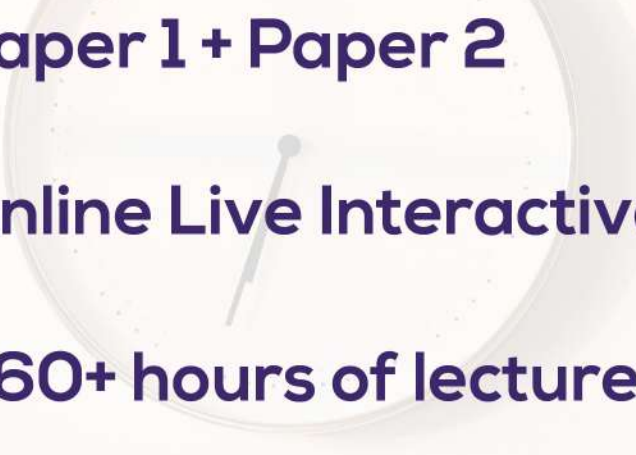
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2	B	12	C	22	B	32	A	42	B
3	D	13	D	23	D	33	B	43	D
4	D	14	A	24	C	34	C	44	C
5	D	15	C	25	D	35	D	45	C
6	D	16	D	26	D	36	C	46	A
7	C	17	A	27	D	37	C	47	A
8	C	18	A	28	B	38	B	48	B
9	C	19	D	29	A	39	C	49	B
10	D	20	B	30	B	40	C	50	A

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QUESTION PAPER-05

50 Questions

Study the given table carefully and answer the questions that follow

The following table has semester fees for four different courses in 5 different years (1-5)

Years	BCA	MCA	M. Tech	M. Phil
2016	25000	52000	60200	300000
2017	26500	53500	61400	32000
2018	27200	54200	62500	32600
2019	27600	55700	62900	33400
2020	28000	56800	63700	33900

1. Find out the difference between total semester fees (for all courses) of 2018 and 2019

- A. 3100
- B. 3150
- C. 3250
- D. 3270

2. Find out the average of difference of fees of MCA and MTech for 2016-2020.

- A. 7600
- B. 7650
- C. 7700
- D. 7750



3. What is the difference between the average semester fees of BCA and average semester fees of MCA during 2016-2020?

- A. 27200
- B. 27365
- C. 27400
- D. 27580

4. Which course has the lowest percentage fee increase from 2017-2018?

- A. BCA
- B. MCA
- C. M. Phil.
- D. M. Tech

5. Which course has highest percentage fee increase from 2019 to 2020?

- A. BCA
- B. MCA
- C. M.Phil.
- D. M. Tech



6. The average of ten numbers is 11. If each number is multiplied by 7, then the average of the new set of numbers is:

- A. 110
- B. 70
- C. 76
- D. 77

7. Match List I with List II

List I	List II
A. Taxila	I. Tantrik teachings
B. Ujjain	II. Dvaita school of thought
C. Vikramshila	III. Medicine
D. Manyakheta	IV. Astronomy

Choose the correct answer from the options given below:

- A. A - I, B - IV, C - III, D - II
- B. A - II, B - III, C - IV, D - I
- C. A - III, B - IV, C - I, D - II
- D. A - IV, B - III, C - II, D - I



8. NSQF will be aligned with International Standard Classification of Occupations maintained by

- A. ILO
- B. Ministry of Skill Development
- C. NQFVE
- D. UNESCO

9. SWAYAM platform was developed by

- A. MHRD (now Ministry of Education), Government of India
- B. Google
- C. Microsoft
- D. IIT, Delhi E. Adobe Inc.

Choose the correct answer from the options given below:

- A. A and B only
- B. A and C only
- C. B and D only
- D. D and E only



10. Given below are two statements

Statement I:-

According to Nyāya, universals are eternal entities which are distinct from, but in here in many individuals

Statement II: -

The universal is the basis of the notion of sameness that we have with regard to all the individuals of a certain class

In light of the above statements,

Choose the correct answer from the options given below:

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

11. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: -

Teachers should accept students as they are and with whatever cognitive level they have.

Reason R: -

Moralizing, being judgemental, exposing ignorance are barriers to successful communication.

In light of the above statements, Choose the correct answer from the options given below:

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A



12. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: -

Schistosomiasis is a polluted water borne disease

Reason R: -

Schistosomiasis is mainly caused due to the presence of sulphate in water

In light of the above statements, choose the correct answer from the options given below

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A

13. SARTHAQ is

- A. A Government of India initiative to provide psychological support for students and teachers for mental health and emotional well being.
- B. A training programme for teachers launched by the Government of India
- C. An organization for supporting the differently abled children
- D. Implementation plan for NEP-2020

14. Identify the fallacy committed in the argument:

Since no tragic actors are idiots and some comedians are not idiots, so some comedians are not tragic actors.

- A. Existential Fallacy
- B. Fallacy of Exclusive Premises
- C. Fallacy of the Illicit Process of Major Term
- D. Fallacy of the Illicit Process of Minor Term



15. A general code of conduct circulated among the employees of an institution is an example of:

- A. Downward communication
- B. Horizontal communication
- C. Lateral communication
- D. Upward communication

16. Following are some statements regarding most of the web browsers. Choose the correct statements.

- A. They have a home page
- B. They do not have the ability to store users' favourite pages
- C. They have hyperlinks to allow users to navigate
- D. They do not keep a history of websites visited by the users

Choose the correct answer from the options given below:

- A. A and B only
- B. A and C only
- C. A and D only
- D. B and D only



17. What is a blog?

- A. Internet
- B. Online journal
- C. Personal website in the form of a journal
- D. Search engine

18. If a researcher has to test a hypothesis whether the difference between the means of two groups are significant, s/he will use:

- A. Chi-square test
- B. Correlation coefficient
- C. Sign-test
- D. Student's t-test

19. Article 48A of the Indian Constitution directs the states to ensure protection and improvement of

- A. Businesses
- B. Education
- C. Environment
- D. Mineral resources



20. Find the next two terms in the series.

A, D, H, M, ____, ____

A. Q, X

B. R, Y

C. S, Z

D. T, A

21. Which of the following states has maximum wind power potential in India as per MVRE's latest report?

A. Gujarat

B. Karnataka

C. Rajasthan

D. Tamil Nadu

22. The ages of Swati and Manisha are in the ratio of 5:6 and the sum of their ages is 55 years.

What will be the ratio of their ages after 5 years?

A. 5:6

B. 6:5

C. 6:7

D. 7:6



23. Which one of the following statements is true with reference to Sāmānyatodṛṣṭā inference?

- A. The middle term is related to the major term as an effect
- B. The middle term is related to the major term both as a cause and an effect
- C. The middle term is related to the major term neither as a cause nor as an effect
- D. The middle term is related to the major term as a cause

24. Which one of the following Millenium Development Goals is about ensuring Environmental Sustainability?

- A. Goal-1
- B. Goal-3
- C. Goal-5
- D. Goal-7

25. Given below are two statements:

Statement I: -

The ability to form and use symbols (words, gestures, signs, images, and so on are accomplished in the preoperational period.

Statement II: -

According to Piaget, preoperational children do not have a tendency to be egocentric.



In light of the above statements, choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

26. Given below are two statements

Statement I:-

Parametric statistics are more powerful than non-parametric statistics

Statement II: -

Parametric statistics are assumption free statistics

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false



27. Match List I with List II

List I	List II
Type of Memory	Fabrication method
A. Dynamic Random Access Memory (DRAM)	I. Filp – Flops
B. Static Random Access Memory (SRAM)	II. Floating gate transistors and capacitors
C. Programmable Read Only Memory (PROM)	III. Transistors and capacitors
D. Erasable Programmable Read Only Memory (EPROM)	IV. Matrix of fuses

Choose the correct answer from the options given below:

- A. A - II, B - I, C - III, D - IV
- B. A - III, B - I, C - IV, D - II
- C. A - III, B - IV, C - I, D - II
- D. A - IV, B - II, C - I, D - III

28. The web portal of SwayamPrabha is maintained by

- A. Doordarshan
- B. Google India office
- C. Indian Institute of Technology, Kharagpur
- D. INFLIBNET centre



29. The air pollutant NO_x is a combination of

- A. Nitrogen dioxide and Nitric oxide
- B. Nitrogen pentoxide and Nitrogen dioxide
- C. Nitrous oxide and Nitric oxide
- D. Nitrous oxide and Nitrogen dioxide

30. Which of the following statement(s) do NOT hold true with respect to the Vocational Education as per NPE-2020?

- A. Voc degrees introduced in 2013 will be discontinued
- B. Lok Vidya courses will replace existing vocational courses
- C. Focus areas for vocational education will be chosen on skills gap analysis without mapping local opportunities
- D. National Committee for integration of Vocational Education will be constituted
- E. Vocational education will be integrated into all schools and higher education institutions in a phased manner over the next decade

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, C and D only
- C. B, C and D only
- D. C, D and E only



31. Given below are two statements

Statement I:-

Exploratory studies mainly aim at developing hypotheses or questions for further research.

Statement II:-

The goal of formal study is to test the hypotheses or answer the questions posed.

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

32. Which of the following statements correctly apply to deductive arguments?

- A. Deductive arguments are either valid or invalid
- B. There must be a necessary relation between the premises and the conclusion
- C. Adding new premises improves the validity
- D. False premises may lead to a true conclusion

Choose the correct answer from the options given below:



- A. A, B and D only
- B. A, B and C only
- C. A, C and D only
- D. B, C and D only

33. Given below are two statements:

Statement I: -

The National Knowledge Commission recommended opening 500 universities to enable India to attain a Gross Enrolment Ratio of at least 20 % by 2015.

Statement II:-

The need to establish an Independent Regulatory Authority for Higher Education (IRAHE) was recommended by the National Knowledge Commission

In light of the above statements, Choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct



34. Given below are two statements

Statement I:-

A vehicle's speed of 30.6 km/hr is the same as 5.8 m/s.

Statement II:-

The speed of a bus is 72 km/hr. The distance covered by the bus in 10 seconds is 100 meter. In light of the above statements,

Choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

35. Which memory is used as part of the processor?

- A. Hard disk
- B. RAM
- C. Registers
- D. ROM



36. Keeping quiet because of fear of punishment in communication is an _____ barrier.

- A. Incentive
- B. Individual
- C. Institutional
- D. Interactional

37. Match List I with List II

List I	List II
MOOC Platform	Developer
A. Coursera	I. Anant Agarwal
B. Udacity	II. Salman Khan
C. Edx	III. Andrew Ng, Daphne Koller
D. Khan Academy	IV. Sebastian Thrun

Choose the correct answer from the options given below:

- A. A - I, B - II, C - III, D - IV
- B. A - II, B - III, C - IV, D - I
- C. A - III, B - IV, C - I, D - II
- D. A - IV, B - I, C - II, D - III



38. Which of the following are the stages of meta analysis?

- A. Understand the literature
- B. Conduct new studies to fill the gap
- C. Develop inclusion and exclusion criteria of the study
- D. Locating primary studies
- E. Identify secondary data

Choose the correct answer from the options given below:

- A. A, B and D only
- B. A, C and D only
- C. B, C and D only
- D. B, D and E only

39. Which one of the following fractions is the largest?

- A. $\frac{11}{16}$
- B. $\frac{31}{40}$
- C. $\frac{5}{8}$
- D. $\frac{67}{80}$



40. "No one has been able to prove the existence of extrasensory perception.

We must therefore conclude that extrasensory perception is a myth".

Which of the following fallacies is committed in this argument?

- A. Appeal to ignorance
- B. Appeal to unqualified authority
- C. Red herring
- D. Straw man

41. Which one of the following is a type of malware embedded in a program on a computer that will set off a malicious function when certain conditions are met?

- A. Logic bomb
- B. Spyware
- C. Trojan
- D. Worm

42. Given below are two statements:

Statement I:-

The MAC address identifies which device is connected at a given IP address

Statement II:-

MAC addresses are unique to each device



In light of the above statements, Choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

43. In communication, entropy refers to

- A. Defensive speech
- B. Oratory
- C. Predictable message
- D. Unpredictable message

44. Which among the following methods is commonly used in anthropological research?

- A. Case study method
- B. Ethnographic method
- C. Life history method
- D. Survey method



45. The National Repository of Open Educational Resources is managed by

- A. Central Institute of Educational Technology, NCERT
- B. Indian Institute of Technology, Delhi
- C. Indira Gandhi National Open University
- D. University Grants Commission

Read the passage carefully and answer the questions that follow:

Assessment is central to almost all forms of education around the world, and in recent years, a wider variety of assessment has tended to be used. One such form of this change is the use of peer and self-assessment. Self-assessment can be defined as "the ability to critically assess one's own work" (Brew, 1999) and peer assessment as "making judgments about, or commenting upon, each other's work". As with all assessment methods, both have their own strengths and weaknesses. It can be argued that peer and self-assessment with careful initiation and moderation are effective methods of assessment. However, this brief note will argue that in the high stakes environments of most educational settings, these methods are inappropriate, as the making is unreliable. Peer and self-assessment have become increasingly common as methods of assessment.



particularly in further and higher education. They are used as methods to reduce the marking loads of teachers and it is claimed, to enhance group work and the critical thinking skills of students. It is also claimed that if marking criteria are discussed and agreed at the start, students' marking does not differ significantly from teachers. In studies where the assessment of different teachers is compared, and also in studies where teacher's and peer's and or self-assessments are compared, it has generally been found that, provided criteria are discussed and agreed in advance, marks tend to be similar. Thus, it could be argued that with the right initial training, there is no difference between work being marked by a teacher or a student.

46. "Students' marking does not differ significantly from teachers", means:

- A. Marks do not differ peripherally
- B. Marks may or may not differ
- C. Marks that are almost similar
- D. Marks that differ radically from teachers

47. What argument the author desires to make?



- A. Assessment is central to education
- B. Peer and self-assessments are inappropriate in high-stake examinations
- C. Peer assessment is common in higher education
- D. Self-assessment and peer-assessment are innovative assessment practices

48. What is the focus of this text?

- A. Assessment and Education
- B. Assessment in general
- C. Peer and Self-assessment
- D. Peer assessment

49. What benefits accrue from self-assessment and peer-assessment of students?

- A. Ability to criticise other's work
- B. Enhancement of group work and critical thinking of students
- C. Promotes uniform assessment
- D. These methods do not require marking

50. Which one of the following captures the meaning of
"Assessment is central to almost all forms of education"



- A. Assessment education is key to education in all forms
- B. Assessment is education in all forms
- C. Assessment is peripheral to education in all forms
- D. Assessment is pivotal to education in all forms



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Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	A	11	C	21	A	31	B	41	A
2	C	12	B	22	C	32	A	42	B
3	D	13	D	23	C	33	D	43	A
4	B	14	B	24	D	34	A	44	B
5	B	15	A	25	C	35	C	45	A
6	D	16	B	26	D	36	B	46	C
7	C	17	C	27	B	37	C	47	B
8	A	18	D	28	D	38	B	48	C
9	B	19	C	29	A	39	D	49	B
10	B	20	C	30	A	40	A	50	D

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QUESTION PAPER-6

50 Questions

The following table embodies details about the number of Personal Computer (PCs) produced and the percentage of PCs sold by two companies A and B from the year 2014 to 2019 . Based on the data in the table, answer the question

Year-wise Production and Sale of PCs

Year	Number of PCs produced by Company (in Thousands)		Percentage (%) of PCs sold by Company	
	A	B	A	B
2014	40	45	60 %	50 %
2015	52	48	75 %	40 %
2016	60	64	50 %	75 %
2017	70	62	80 %	60 %
2018	72	65	40 %	80 %
2019	90	80	60 %	50 %

1. What is the difference between the total number of PCs sold and the total number of unsold PCs of Company B in all the six years together?

- A. 68700
- B. 70500
- C. 72100
- D. 73800



2. What is the total number of PCs produced by Company A which remain unsold in all the six years together?

- A. 137400
- B. 144340
- C. 152200
- D. 168000

3. What is the ratio of the number of PCs sold by Company B in 2018 to the number of PCs that remained unsold by Company A in the year 2015?

- A. 5 : 2
- B. 4 : 1
- C. 5 : 3
- D. 4 : 3

4. The number of PCs sold by Company A in 2015 is what percentage of the number of PCs sold by Company B in the year 2019?

- A. 82.5%
- B. 87.5%
- C. 90%
- D. 97.5%



5. The number of PCs sold by Company A in year 2017 is what percentage more than the number of PCs unsold by Company B in year 2016?

- A. 250%
- B. 200%
- C. 120%
- D. 80%

6. Match List I with List II.

List I	List II
Elements of Communication	Characteristic feature
(A) Source	(I) Means used to convey the message
(B) Receiver	(II) Set of verbal and nonverbal cues from a source
(C) Message	(III) A person who interprets the message
(D) Channel	(IV) A person or an event which provides verbal / non verbal cues.

Choose the correct answer from the options given below:

- A. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- B. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- C. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- D. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

7. If the selling price is doubled, the profit triples. What would be the profit percentage?

- A. 25%
- B. 50%
- C. 100%
- D. 125%



8. For drinking and irrigation purposes, the availability of suitable water out of earth's total water supplies is about less than

- A. 1%
- B. 5%
- C. 6%
- D. 10%

9. Match List I with List II

List I (Computer Terms)	List II (Description)
(A) Processor	(I) Part that runs executable programs
(B) RAM	(II) Part that stores files permanently
(C) Hard Disk	(III) Part that stores instructions and data temporarily for use
(D) Compiler	(IV) Part that translates source program to executable program

Choose the correct answer from the options given below :

- A. (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- B. (A)-(IV), (B)-(III), (C)- (II), (D)-(I)
- C. (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- D. (A)-(I), (B)-(II), (C)- (IV), (D)-(III)



10. Which level of teaching is also designated as ‘exploratory understanding’?

- A. Memory level
- B. Understanding level
- C. Reflective level
- D. Autonomous development level

11. Given below are two statements:

Statement I: -

At every step of research genuineness is to be vouched. Hence the issue of research ethics becomes germane.

Statement II: -

ICT application in research is supportive and facilitative rather than mandatory and absolute.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are correct.
- B. Both Statement I and Statement II are incorrect.
- C. Statement I is correct but Statement II is incorrect.
- D. Statement I is incorrect but Statement II is correct.



12. Data of research take the forms of words or pictures with the researcher as the key instrument in which of the following studies?

- A. Participant observation based Studies
- B. Ex Post Facto Studies
- C. Experimental Studies
- D. Descriptive survey Studies

13. For maintenance of standards of teaching examination and research and coordination of University Education which of the following section of UGC act should be referred to?

- A. Section 28
- B. Section 25
- C. Section 15
- D. Section 12

14. The first regulatory body in higher education in India was set up under the rubric of:

- A. UGC
- B. MCI
- C. BCI
- D. AICTE



15. Which of the following statements about blogs in network communication is True?

- A. The content of a blog can be edited by anyone.
- B. A blog is a synchronous communication system that allows people to chat in realtime.
- C. A blog consists of posts in reverse chronological order.
- D. A blog is a history of web pages that you have visited, maintained by an ISP.

16. Match List I with List II

List I

Research Types

List II

Goal of Research

- (A) Fundamental Research (I) Appraising impact of interventions
- (B) Applied Research (II) Amelioration of a given situation
- (C) Action of Research (III) Exploring applicability of already established principles
- (D) Evaluative Research (IV) Advancing the corpus of knowledge in a field

Choose the correct answer from the options given below:

- A. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- B. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- C. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- D. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)



17. Given below are two statements:

Statement I:-

An informal fallacy is one that may be identified through mere inspection of the form or structure of an argument.

Statement II:-

Formal fallacy is one that can be detected only through analysis of the content of the argument.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are correct.
- B. Both Statement I and Statement II are incorrect.
- C. Statement I is correct but Statement II is incorrect.
- D. Statement I is incorrect but Statement II is correct.

18. The Indian council of Social Science Research was established for :

- (A) strengthening different disciplines
- (B) promoting researches in social science
- (C) enhancing quality of social science as a discipline
- (D) providing a platform for discussion on social scientists' concerns
- (E) supporting seminars and conferences organized by Universities



Choose the correct answer from the options given below:

- A. (A) and (C) only
- B. (B) and (C) only
- C. (A) and (B) only
- D. (B) and (D) only

19. Identify the characteristics of 'Field-independent learner'

- (A) Seeks guidance and demonstrations from teacher
- (B) Focuses on details of curriculum materials
- (C) Likes to compete
- (D) Relates concepts to personal experience
- (E) Can organize information by himself or herself

Choose the correct answer from the options given below:

- A. (A), (B) and (C) only
- B. (A), (C) and (D) only
- C. (B), (C) and (E) only
- D. (C), (D) and (E) only

20. In a polluted urban area, which of the following constituents of photochemical smog has the least concentration (parts per billion by volume)?

- A. CO Carbon monoxide
- B. Nitrogen dioxide
- C. Hydrocarbons (without methane)
- D. Ozone



21. As per Sustainable Development Goal 3, one of the targets is to reduce under-5 mortality per 1000 live births to at least as low as

- A. 50
- B. 40
- C. 25
- D. 15

22. The cost price of 10 items is same as the selling price of N items. If the profit is 25%, then the value of N is?

- A. 8%
- B. 16%
- C. 20%
- D. None of these

23. Which of the following group of statements in the context of Information Technology (IT) is correct?

- (A) Mouse, Keyboard, and Plotter are all input devices.
- (B) Unix, Windows, and Linux are all operating systems.
- (C) Register, Cache Memory, and Hard Disk are all memory modules.
- (D) Monitor, Printer, and Scanner are all output devices.

Choose the correct answer from the options given below:

- A. (A) and (B) only
- B. (A) and (D) only
- C. (C) and (D) only
- D. (B) and (C) only

24. Tidal range R is a critical factor in determining whether an estuary would be useful for tidal power generation as energy (E) available per tidal cycle depends on scales with R as according to the following relation:

- A. $E \propto R$
- B. $E \propto R^{1/2}$
- C. $E \propto R^2$
- D. $E \propto R^3$

25. A coal fired thermal power plant has an efficiency of 35%. The electricity from the power plant is used entirely for lighting purposes with average efficiency of 20%. What is the overall efficiency of conversion form coal to lighting?

- A. 15%
- B. 55%
- C. 70%
- D. 7%



26. The average age of A, B and C is 25 years.

If the average age of A and B is 22 and that of B and C is 23.

Then what is the age of B?

- A. 15 years
- B. 20 years
- C. 25 years
- D. 30 years

27. Given below are two statements: One is labelled as Assertion A and the other is labeled as Reason R.

Assertion (A):-

Research Hypothesis (H₁) cannot be directly verified.

Reasons (R):-

Null Hypothesis (H₀) is helpful in making a claim by the researcher that his/her findings are not fortuitous or by chance.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A).
- B. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- C. (A) is correct but (R) is not correct.
- D. (A) is not correct but (R) is correct.



28. Under which of the following conditions an inference may be categorized as Kevalānvayi

- A. When it is based on middle term which is only positively related to the major term
- B. When it is based on middle term which is only negatively related to the major term
- C. When it is based on middle term which is both positively and negatively related to the major term
- D. When middle term and major term have the relationship of identity (tādātmaya) between them

29. The NEP 2020 prioritises the increase in the GER in preschool to secondary level by 100 % by the year

- A. 2025
- B. 2030
- C. 2035
- D. 2040

30. Given below are two statements:

Statement I:-

Bus, Ring, Star, and Mesh are types of network protocols.

Statement II:-

A short-range radio communication standard that transmits data over short distances upto approximately 30 feet is known as Bluetooth.



In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true.
- B. Both Statement I and Statement II are false.
- C. Statement I is true but Statement II is false.
- D. Statement I is false but Statement II is true.

31. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A):-

Research has shown that the two-step flow theory is oversimplified for every field of interest.

Reasons (R):-

People tend to make great use of the media now in their respective interest.

In the light of the above statements, Choose the most appropriate answer from the options given below:

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A).
- B. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- C. (A) is correct but (R) is not correct.
- D. (A) is not correct but (R) is correct.



32. Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion (A): -

Teaching support system as provided by ICT based gadgets is intended to optimise learning and interest in learning material.

Reasons (R):-

Any meaningful support in teaching has to be instrumental in augmenting learning conditions and outcomes.

In the light of the above statements, Choose the most appropriate answer from the options given below :

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A).
- B. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A).
- C. (A) is correct but (R) is not correct.
- D. (A) is not correct but (R) is correct.

33. Given below are two statements:

Statement I:-

Engagement in the learning process refers to the amount of time students devote to learning in the classroom.

Statement II:-

Formative assessment is formal whereas summative assessment is informal.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true.
- B. Both Statement I and Statement II are false.
- C. Statement I is true but Statement II is false.
- D. Statement I is false but Statement II is true.

34. Match List I with List II

List I (Teaching Method)	List II (Examples)
(A) Monologic teaching method	(I) Cybernetics and computer-aided instruction
(B) Dialogic teaching method	(II) Case studies and tutorials
(C) Action based teaching method	(III) Team teaching and demonstration
(D) Self study based teaching method	(IV) Simulation and role playing

Choose the correct answer from the options given below:

- A. (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- B. (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
- C. (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
- D. (A)-(IV), (B)-(I), (C)-(III), (D)-(II)

35. Identify the correct order of the following INTEL processors in the increasing order of speed.

(A) 80486

(B) 8085

(C) Dual Core

(D) Pentium-III

Choose the correct answer from the options given below:

A. (A),(B),(C),(D)

B. (B), (A), (D), (C)

C. (A),(B),(D),(C)

D. (A),(C),(D),(B)

36. Which type of Communication is most difficult in gearing message to an audience?

A. Interpersonal Communication

B. Mass Communication

C. Intrapersonal Communication

D. Group Communication



37 Mohan buys a second hand television at a cost of Rs. 7,500 and spends Rs. 500 on its repair. Later on he sells it at a cost of Rs. 9,000.

How much profit he gets in this process?

- A. 7.5%
- B. 12.5%
- C. 20%
- D. 25%

38. Which of the following statements is true regarding two contrary propositions?

- A. They can both be true
- B. The truth of one entails the falsity of the other
- C. They cannot both be false
- D. The falsity of one entails the truth of the other

39. Physical barriers to communication are rapidly disappearing, but psychological obstacles remain owing to which of the following?

- (A) By formal language
- (B) By visual presentation
- (C) By use of technology
- (D) By emotional appeal
- (E) By cultural attitude



Choose the correct answer from the options given below:

- A. (A),(D) and (E) only
- B. (A), (B) and (C) only
- C. (B), (C) and (D) only
- D. (C), (D) and (E) only

40. Which kind of inference is illustrated when one argues that sound must be a quality because it cannot be a substance or an activity or a relation and so on?

- A. Ś Sesāvata
- B. Purvāvata
- C. Samanyaodrsta
- D. Both Purvavata and Sāmānyatodrsta

41. Who among the following was the Chairman of University Education Commission (1948)?

- A. Dr. D.S. Kothari
- B. MaulanaAbulKalam Azad
- C. Dr. Zakir Hussain
- D. Dr. S. Radhakrishnan



42. Which fallacy is committed in the argument - "Sound is a quality because it is visible"?

- A. Asryāsiddha
- B. Vyāpyatvāsiddha
- C. Svarupāsiddha
- D. Sādhyāsiddha

43. In a cricket match, in the first 20 overs run rate was 4.5. What should be the run rate in the remaining 30 overs to meet a target of 325?

- A. 6.24
- B. 7.83
- C. 5.94
- D. 8.21

44. Given below are two statements:

Statement I:-

Audience noise is potent when the message is controversial.

Statement II:-

It is impossible for any communication to convert an audience from one viewpoint to another.



In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true.
- B. Both Statement I and Statement II are false.
- C. Statement I is true but Statement II is false.
- D. Statement I is false but Statement II is true.

45. Identify the characteristic features of 'Hypothetico-deductive research' paradigm:

- (A) Researcher is detached from the study to avoid bias
- (B) Researcher becomes immersed in the research situation present or past
- (C) The researcher seeks to establish relationships and explains causes of changes in measured social facts
- (D) Actual settings are the direct source of data
- (E) An attempt is made to set up universal context free generalizations. Choose the correct answer from the options given below:

- A. (A),(B) and (C) only
- B. (B), (C) and (D) only
- C. (A),(C) and (E) only
- D. (C), (D) and (E) only



Read the passage carefully and answer the question that follows: (46 – 50)

How much time should you allot for group work? It depends on task complexity, but you must make some more refined estimates as well. You need to determine the time to devote to group work and time to devote to all groups coming together to share their contributions. This latter time may be used for group reports, a whole-class discussion, debriefing to relate the work experiences of each group to the end product, or some combination of these tasks. Group work can easily get out of hand in the excitement, controversy, and natural dialogue that can come from passionate discussion. This possibility requires you to place limits on each stage of the cooperative learning activity, so one stage does not take time from another and leave the task disjointed and incomplete in your learners' minds. Most time naturally will be devoted to the work of individual groups, during which the major portion of the end product will be completed. Individual group work normally will consume 60% to 80% of the time devoted to the cooperative learning activity. The remaining time must be divided among individual group presentations and/or whole class discussion and debriefing that places the group work into the perspective of a single end product. If you plan both group reports and whole class discussion for the same day, be aware that the discussion probably will get squeezed into a fraction of the time required to make it meaningful. To avoid this, the group discussion or debriefing for the following class day may be so scheduled so that class members have ample time to reflect on their group reports and to pull together their own thoughts about the collaborative process, which may or may not have occurred as intended. Providing 15 or 20 minutes at the beginning of class the next day is usually enough time for students to have acquired the proper distance to reflect meaningfully on their experiences of the day before -and to learn from them.



46. What can disrupt group work?

- A. Difficulty of task
- B. A whole class discussion
- C. Discussions which involve emotions
- D. Arguments on various points

47. The most appropriate caption for the passage will be:

- A. Guidelines for cooperative learning
- B. Procedure for cooperative learning
- C. Precaution in the conduct of cooperative learning
- D. Limitations of cooperative learning

48. A major chunk of time in cooperative learning is devoted to which of the following?

- A. Individual group presentation
- B. Whole class discussion
- C. Individual group work
- D. Debriefing



49. What is the main determinant of time allocation in cooperative learning?

- A. Time devoted to group work
- B. Time devoted to all groups
- C. Time devoted to presentation of reports
- D. Complexity and the number of tasks involved

50. The members of cooperative learning team should be given enough time to

- A. reflect
- B. discuss
- C. ask questions
- D. present new ideas



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Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	D	11	A	21	C	31	A	41	D
2	C	12	A	22	D	32	A	42	C
3	B	13	D	23	D	33	C	43	B
4	D	14	B	24	C	34	B	44	C
5	A	15	C	25	D	35	B	45	C
6	D	16	B	26	A	36	B	46	C
7	C	17	B	27	A	37	B	47	D
8	A	18	B	28	A	38	B	48	C
9	A	19	C	29	B	39	A	49	D
10	C	20	D	30	D	40	A	50	A

*This Answer key is tentatively released by NTA - NET



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UGC - NTA - NET - PAPER 1 - 2021

QUESTION PAPER-7

50 Questions

The following table embodies the details about the production and profit of two items I and II by seven different companies A-G.

Based on the data in the table, answer the question Company - wise Production and profit details (1-5)

Cost of the total production of both items together by seven companies is Rs. 25 crores.

Company	Percentage (%) of Total Production	Ration of production between Items I and II	(%) Profit Earned for	
			Items I	Items II
A	15%	2: 3	25%	20%
B	11%	3: 2	32%	35%
C	22%	4: 1	20%	22%
D	08%	3: 5	15%	25%
E	27%	5: 3	28%	30%
F	05%	1: 4	35%	25%
G	12%	1: 4	30%	24%

1. What is the total profit earned by company G for items I and II together?

- A. ₹ 78 Lakhs
- B. ₹1.62 crores
- C. ₹ 7.8 crores
- D. ₹16.2 Lakhs



2. What is the sum total of the profit earned by company B on production of item I and the profit earned by company A on the production of item II?

- A. ₹ 9.78 Crores
- B. ₹ 97.8 Lakhs
- C. ₹ 52.8 Lakhs
- D. ₹ 30.65 Lakhs

3. What is the ratio of the cost of production of item I by company A to the cost of production of item I by company D?

- A. 3: 5
- B. 2: 1
- C. 3: 1
- D. 2: 3

4. What is the sum total of the cost of production of item I by company A and the cost of production of item II by company B?

- A. 2.6 Crores
- B. 26 Lakhs
- C. 3.35 Crores
- D. 33.65 Lakhs

5. Cost of production of item I by company F is what percent % of the cost of production of item II by company D?

- A. 16 %
- B. 66.67 %
- C. 33.33 %
- D. 20 %



6. Identify from the following spectrum of teaching methods which are called 'dialogic'.

- (A) Team teaching and demonstration.
- (B) Tutorials and case studies
- (C) Group discussions and interactive presentation
- (D) Simulation and role playing
- (E) Computer Aided instruction and Practical tasks

Choose the correct answer from the options given below :

- A. (A) and (C) only
- B. (B) and (D) only
- C. (B) and (C) only
- D. (D) and (E) only

7. Which of the following Indian thought systems holds that universal relation in case of inference (anumāna) cannot be determined because there is always room for doubt about the unobserved cases?

- A. Buddhists
- B. Naiyāyikas
- C. Mimāmsa
- D. Lokāyāla

8. The average age of three boys is 25 years and their ages are in the proportion 3: 5: 7, the age of the youngest boy is:

- A. 9 years
- B. 15 years
- C. 18 years
- D. 21 years



9. In which level of teaching 'Seeing of relationship' is promoted as an objective?

- A. Memory level
- B. Understanding level
- C. Reflective level
- D. Autonomous development level

10. Which fallacy is committed in the following statement?

"Nobody has even proved that immoral behaviour by elected officials erodes public morality."

"Therefore we must conclude that such behaviour does not erode public morality".

- A. Appeal to Force
- B. Appeal to Pity
- C. Appeal to Ignorance
- D. Appeal to the People

11. For continuous professional development and self-improvement every teacher is supposed to atleast devote how many hours every year?

- A. 20 hrs
- B. 30 hrs
- C. 40 hrs
- D. 50 hrs



12. Given below are two statements:

Statement A:-

"All physicians whose licenses have been revoked are physicians ineligible to practise".

Statement B :-

"All physicians eligible to practise are physicians whose licenses are intact".

Which of the following is true with regard to above two statements?

- A. Statement B is contrapositive of the statement A and these statements are not logically equivalent.
- B. Statement B is contrapositive of the statement A and these two statements are logically equivalent.
- C. Statement B is converse of the statement A and these two statements are not logically equivalent.
- D. Statement B is obverse of the statement A and these two statements are not logically equivalent.

13. Ozone layer to become ozone hole, the concentration of ozone should be

- A. <220 Dobson Unit
- B. <300 Dobson Unit
- C. <320 Dobson Unit
- D. <400 Dobson Unit



14. Which of the following belong to the category of true experimental design?

1. One group pre test post test design
2. Two groups randomized subjects post test only design
3. Two groups static designs
4. Randomised groups pre test post test design
5. One group time series design

Choose the correct answer from the options given below:

- A. (1) and (2) only
- B. (2) and (3) only
- C. (2) and (4) only
- (D) (4) and (5) only

15. Identify the correct order in which the following computer memories are ranked from largest to smallest in terms of storage capacity

- (A) Cache
- (B) RAM
- (C) Hard Disk
- (D) Register

Choose the correct answer from the options given below:

- A. (C),(B),(D),(A)
- B. (D), (A), (B), (C)
- C. (B),(D),(C),(A)
- D. (C), (B), (A), (D)



16. Which of the following group of statements with respect to World Wide Web (WWW) is correct?

- (A) A web server is a software used to access and view content on the WWW.
- (B) A web browser is a computer system that makes files available on the WWW.
- (C) Tim Berners - Lee created the WWW.
- (D) Mosaic was the first widely used web browser.

Choose the correct statements from above:

- (1) (A) and (B) only
- (2) (C) and (D) only
- (3) (B) and (C) only
- (4) (A) and (D) only

17. Match List I with List II

List I	List II
Key behaviours contributing to effective	Descriptive fetures
(A) Lesson clarity	(I) Frequency with which students understand and correctly complete exercises
(B) Instructional Variety	(II) The amount of time students devote in learning in the classroom
(C) Engagement in learning process	(III) Teacher's flexibility of the delivery during the presentation of a lesson
(D) Student success rate	(IV) Direct, audible oral delivery to all students



Choose the correct answer from the options given below:

- A. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- B. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- C. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- D. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

18. Given below are two statements:

Statement I :-

Use of ICT in research is a super imposition which should be discouraged.

Statement II :-

Research ethics and its observance has to be a mandatory requirement.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true

19. Given below are two statements:

Statement I:-

Society plays a key part in the shaping of communication process.

Statement II :-

Communication is concerned with the production, distribution and formation of public knowledge in society.

In the light of the above statements, choose the most appropriate answer from the options given below:



- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

20. The Virus responsible for disease COVID-19 is

- A. SARS - Cov-2
- B. TB-Cov-2
- C. SARS - Cov-1
- D. H₂N₂

21. Match List I with List II

List I	List II
Stages of value development	Descriptive features
(A) Stage I - Value collection	(I) Provides predictability of human
(B) Stage II - Value assessment	(II) When there are gaps between
(C) Stage III - Value clarification	(III) Helps the individual learn to choose and imbibe the values one cherishes
(D) Stage IV - Value consolidation	(IV) These are acquired from the members of the community

Choose the correct answer from the options given below:

- A. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- B. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- C. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- D. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)



22. Given below are two statements One is labelled as Assertion (A) and the other is labelled as Reason (R) :

Assertion (A):-

Format and styles of referencing in a research thesis are formal requirements.

Reasons (R):-

Formal requirements and their observance help promote standardization and objectivity.

In the light of the above statements, choose the most appropriate answer from the options given below :

- A. Both (A) and (R) are true and (R) is the correct explanation of (A)
- B. Both (A) and (R) are true and (R) is NOT the correct explanation of (A)
- C. (A) is true but (R) is false
- D. (A) is false but (R) is true

23. Match List I with List II

List I	List II
(Digital Initiatives in Higher Education)	(Purpose)
(A) NAD	(I) Reduce dependency on proprietary software in educational institutions.
(B) NDL	(II) Learn various free and open source software all by oneself.
(C) Spoken Tutorial	(III) Issuance, storage, access and verification of Academic Awards namely degrees, mark-sheets etc.
(D) FOSSEE	(IV) Frame work of virtual repository of learning resources with a single window search facility.



Choose the correct answer from the options given below:

- A. (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- B. (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- C. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- D. (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

24. With an average speed of 50 km/ hr, a train reaches its destination in time. If it goes with an average speed of 40 km/ hr, it is late by 24 minutes.

The total distance travelled is:

- A. 30 km
- B. 40 km
- C. 60 km
- D. 80 km

25. With respect to Computer Virus, which one of the following statements is True?

- A. It is a kind of physical impurity which when present in the CPU causes it to malfunction.
- B. It is a computer program that infects a computer and thereby sends unsolicited bulk email.
- C. It is a computer program which copies itself to infect a computer without the permission/ knowledge of the user.
- D. It is an accumulation of dust on the hard disk causing it to malfunction.



26. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A):-

Innovations in evaluation system have to amply safeguard the reliability and validity issues of tools used.

Reasons (R):-

The very purpose of evaluation is frustrated, if the evaluation tools do not meet the requirements of reliability and validity.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A)
- B. Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- C. (A) is correct but (R) is not correct
- D. (A) is not correct but (R) is correct

27. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R) :

Assertion (A): Those who receive the message and get themselves influenced by them in the process, are designated as audience.

Reasons (R): An individual or many, who listen, watch or read the messages are called audience.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A)
- B. Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- C. (A) is correct but (R) is not correct
- D. (A) is not correct but (R) is correct



28. In which of the following research methods, process of hypothesis testing optimally safeguards the role of extraneous variables?

- A. Export Facto method
- B. Experimental method
- C. Historical method
- D. Descriptive survey method

29. 'Many Voices, one world: Communication and Society:

Today and Tomorrow' (UNESCO), known as the MacBride commission, is about:

- (A) The needs of developing countries
- (B) Industrial growth
- (C) Disarmament and world peace
- (D) Balance information flow
- (E) International understanding

Choose the correct answer from the options given below :

- A. (1)(A), (D), (E) only
- B. (2) (A), (B), and (C) only
- C. (3) (A), (C), and (D) only
- D. (4) (A), (B), and (D) only

30. The saltiness of the ocean water can be attributed to the minerals and salts deposited by the various rivers that flow into it. However, rivers are not saline because:

- A. Salts get precipitated at the bottom
- B. Salts are absorbed by the plants into it
- C. River water is replenished by the rain
- D. Muds of the river neutralizes the salt



31. When the attitude of the communication towards self is positive but towards others it is negative, the communicator is said to be

- A. Self confident
- B. Lacking in self confidence and
- C. Self-conceited
- D. Communicating without confidence and without optimism

32. If the word EARTH be written as QPMZS in coded form,
Then how can HEART be written following the same coding.

- A. SQPZM
- B. SQMPZ
- C. SPQZM
- D. SQPMZ

33. India's maximum energy comes from:

- A. Hydroelectric Power Plant
- B. Nuclear Power Plant
- C. Thermal Power Plant
- D. Solar Power Plant



34. Match List I with List II

List I

List II

Steps of research

Precautions needed

- (A) Problem formulation (I) Appropriateness of techniques used
(B) Hypothesis making (II) Ensuring internal validity optimally
(C) Research design (III) Unambiguous labelling of variables being related
(D) Data analysis (IV) Focused issues in terms evidences

Choose the correct answer from the options given below:

- A. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
B. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
C. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
D. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

35. The central motivational goal as evident in personal success through demonstrating competence according to social standards takes the form of a basic value called,

- A. Self - direction value
B. Hedonistic vlaue
C. Achievement value
D. Power value



36. A sum of money at compound interest doubles itself in 15 years, It will become eight times of itself in:

- A. 45 years
- B. 48 years
- C. 54 years
- D. 60 years

37. Given below are two statements:

Statement I: Promoting classroom dialogue that encourages students to examine alternatives is an example of direct instruction.

Statement II : Probing refers to teacher statements that encourage students to elaborate an answer.

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true**

38. Under the rubric oriental learning programmes in India, The role of learner was considered to be relatively more:

- A. Active
- B. Passive
- C. Neutral
- D. Silent



39. Sagarika is never seen reading any Mathematics book during the day time. Yet she scored 98 % marks in Mathematics. Therefore she must be studying during the night. "

Which of following means of knowledge is used in this argument?

- A. Upamāna (analogy)
- B. Prātyakṣa (Perception)
- C. Anumāna (inference)
- D. Arthāpatti (Implication)

40. Complete the number series :

0,6,24,60,120,

- A. 180
- B. 300
- C. 210
- D. 240

41. Which of the following features are indicative of the negative social rather than physical aspects of environment?

- (A) Habitats in slums
- (B) Conflict and clashes in groups
- (C) Frustration and anxiety manifest in groups
- (D) Aggression and threats manifest in collective behaviour

Choose the most appropriate answer from the options given below :

- A. (A) and (B) only
- B. (B), and (C) only
- C. (B) and (D) only
- D. (C) and (D) only



42. Given below are two statements:

Statement I: The largest decimal number that can be represented using a 7-bit binary number is 128

Statement II : Minimum number of bits required to store largest 2-digit decimal number is 7 .

In the light of the above statements, choose the correct answer from the options given below:

- A. Both Statement I and Statement II are true
- B. Both Statement I and Statement II are false
- C. Statement I is true but Statement II is false
- D. Statement I is false but Statement II is true

43. The statement 'a sense organ that perceives a property also perceives the "propertyness" as well as the absence of that property' can be attributed to which of the following schools of classical Indian Philosophy?

- A. Lokāyāla / Cārvāka
- B. Nyāya
- C. Buddhism
- D. Uttara mīmāṃsā

44. If the action desired in the message is satisfactorily performed or the information is faithfully received, it is said that,

- A. Communication loop has been closed
- B. Communication has just begun
- C. Communication is successful
- D. Communication process is smooth



45. Match List I with List II

List I

List II

Air Quality Index Colour Code

- | | |
|-------------|-------------|
| (A) 0-50 | (I) Yellow |
| (B) 101-200 | (II) Red |
| (C) 201-300 | (III) Green |
| (D) 301-400 | (IV) Orange |

Choose the correct answer from the options given below:

- A. (A)-(III), (B)-(I), (C)-(II), (D)-(IV)
- B. (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- C. (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- D. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

**Read the following passage carefully and answer the questions that follow:
(46-50)**

The separation of work from knowledge was operationalised by separation of training from education. The former was intended to transfer the skills of labour and the secrets of craftsmanship to the younger generation of the toiling poor so as to enable them to produce value from the sweat of their labour. The latter was intended to pass on the abstracted generalisations of social practice as gems of knowledge to the younger generations of the propertied class so as to enable them to wield power through a monopoly of such knowledge and appropriate surpluses generated by the labour of the



former. The essentially integrated task of transferring the accumulated social experience of mankind to the younger generation was thus fractured.

The continuum of the primitive stage was transformed into the dichotomy of class societies. The world of the master craftsman and his disciples was a world apart from the protected cloisters where in the wise debated on the number of angles that could comfortably sit on the point of the needle. This tradition of separating work from knowledge and work from power has been the basis for the exclusion of the toilers from the domain of knowledge by denying education to them, and from the domain of power by closing its door to the uneducated. Viewed thus, education may be considered to be the most potent instrument of inequalisation in history. This distortion was partially corrected in the developed countries of the west under the impact of the Industrial Revolution. With qualitative transformation of technology, it was no longer possible for the skilled craftsman to participate in production without transcending the boundaries of training and moving into the work of education. The blacksmith was to be rooted in the science of metallurgy and tanner in chemical technology. The hitherto unsurmountable wall between training and education had to be breached in the new situation. It became possible to do so in the traditionally virgin ethos of the lands across the Atlantic wherever the tanner and the historian, the blacksmith and the physicist, the tiller and the poet were put together in the wilderness of the wildwest to fashion their common destiny.

46. Inequalisation due to education could be addressed by:

- (A) Promoting the distinction between theory and practise
- (B) Challenging the watertight distinction between training and education
- (C) Qualitative transformation of technology
- (D) Ushering in an age of specialization based on dichotomy between training and education



Choose the correct answer from the options given below:

- A. (A) and (B) only
- B. (A), and (D) only
- C. (B) and (C) only
- D. (C) and (D) only

47. Assign a suitable title to the paragraph

- A. Theory without practice infertile, practical benefit of theory is in vain
- B. Theory and practical, complement each other's
- C. Dichotomy of theory and practice
- D. Theory lends support to practice

48. Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R):

Assertion (A): Education may be considered to be an instrument of inequalisation.

Reasons (R): The separation of work from knowledge was operationalized by separation of training from education.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both (A) and (R) are correct and (R) is the correct explanation of (A)
- B. Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- C. (A) is correct but (R) is not correct
- D. (A) is not correct but (R) is correct



49. Given below are two statements:

Statement I:-

Training is intended to transfer the skills of labour and secrets of crafts manship to people who lack it.

Statement II:-

Education is intended to pass on the abstracted generalizations of social practise to those who lack it.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

50. The author of the passage argues for:

- (A) Classless society
- (B) Technocratic society
- (C) Interrelation between theory and practice
- (D) Presentation of traditional crafts

Choose the correct answer from the options given below:

- A. (A) and (D) only
- B. (A) and (C) only
- C. (B) and (D) only
- D. (C) and (D) only

! All the Best for Your Preparation . . .



Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	A	11	D	21	A	31	C	41	C
2	B	12	B	22	A	32	D	42	D
3	B	13	A	23	A	33	C	43	B
4	A	14	C	24	D	34	C	44	A
5	D	15	D	25	C	35	C	45	B
6	C	16	B	26	A	36	A	46	C
7	D	17	A	27	A	37	D	47	A
8	B	18	D	28	B	38	A	48	A
9	B	19	A	29	A	39	D	49	A
10	C	20	A	30	C	40	C	50	B

*This Answer key is tentatively released by NTA - NET

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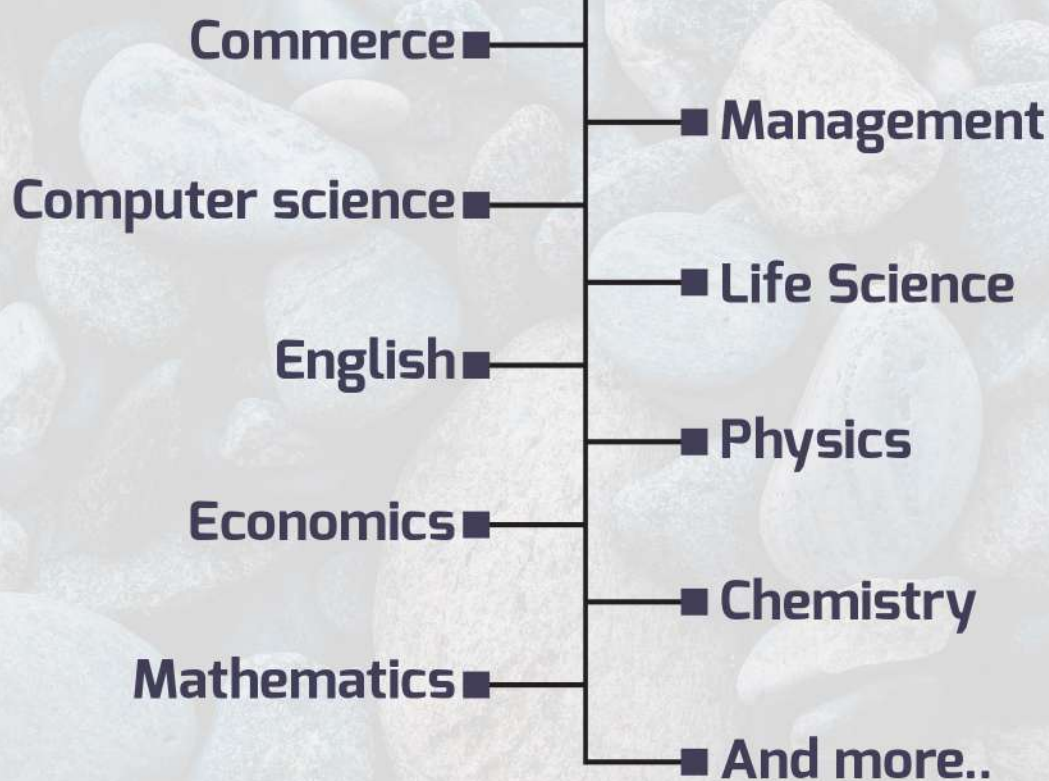
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QUESTION PAPER-8

50 Questions

Read the given passage and answer the questions that follow.

The following table has the number of enrolled students for a particular course and year.

Total numbers of seats are given in brackets with respect to each course.

Year	Number of Enrolled Students			
	BTech (120)	MTech (30)	MPhil (20)	MBA (60)
2016	96	24	12	52
2017	110	26	14	57
2018	108	25	13	54
2019	112	28	15	56
2020	104	27	16	48

1. Which year has highest average enrollment

- A. 2017
- B. 2018
- C. 2019
- D. 2020

2. Which course has the highest percentage increase in enrollment of students from 2016-2017?

- A. B Tech
- B. M Phil
- C. M Tech
- D. MBA

3. Which year has the minimum vacant seats?

- A. 2016
- B. 2017
- C. 2018
- D. 2019

4. Find out the difference between average vacant seats of MTech and MBA for 2016-2020.

- A. 2.4
- B. 2.5
- C. 2.6
- D. 2.7

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5. What is the average number of vacant seats of B. Tech for years (2016-2020)?

A. 14

B. 15

C. 16

D. 17

6. A sum of money placed at compound interest doubles itself in 4 years. In how many years will it amount to 8 times?

A. 12 years

B. 16 years

C. 5 years

D. 8 years

7. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:-

Two fundamental features of classroom communication are classroom instruction and classroom management.

Reason R:-

The classroom communication of teachers rests on the principle of edutainment.

In light of the above statements, choose the *correct* answer from the options given below

- A. A is false but R is true,
- B. A is true but R is false,
- C. Both A and R are true and R is the correct explanation of A,
- D. Both A and R are true but R is NOT the correct explanation of A

8. Given below are two statements one is labelled as Assertion A and the other is labelled as Reason R

Statement I: Toxic chemicals often injure organs as well as organ systems

Statement II: Hepatotoxins are chemicals that can damage kidneys

In light of the above statements, choose the *most appropriate* answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

9. Following are some statements regarding the firewalls. Choose the correct statements

- A. Examine traffic between computer and a network
- B. Used to verify that data comes from a secure and trusted source
- C. Use the concept of digital signature
- D. Keep a list of IP addresses thus preventing access to certain websites

Choose the *correct* answer from the options given below:

- A. A and D only
- B. A and C only
- C. B and C only
- D. C and D only

10. Which among the following is a software for the analysis of qualitative data?

- A. NVivo
- B. R
- C. SPSS
- D. STATA

11. Match List I with List II

List I	List II
Millennium Development Goal	Aim
A. Goal 1	I. Promote gender equality and empower women
B. Goal 2	II. Reduce child mortality
C. Goal 3	III. Eradicate extreme poverty and hunger
D. Goal 4	IV. Achieve universal primary education

Choose the correct answer from the options given below:

A. A - I, B - III, C - II, D - IV

B. A - II, B - IV, C - III, D - I

C. A - III, B - IV, C - I, D - II

D. A - IV, B - II, C - I, D - III

12. The steps involved in developing a performance test are

- A. Develop an observation/rating form.
- B. Try out the test items before developing a final form.
- C. Conduct a job (task) analysis to determine what abilities are to be tested.
- D. Develop an administration format
- E. Develop some type of task-sampling plan.

Choose the *correct* answer from the options given below

- A. A, D, B, C, E
- B. B, C, D, A, E
- C. C, A, E, D, B
- D. D, B, C, E, A

13. Which term comes next in the sequence?

AN, CQ, EU, —

- A. GY
- B. HZ
- C. IA
- D. JB

14. Match List I with List II

List I	List II
Security threats	Meaning
A. Hacking	I. 'Clog-up' a user's inbox with unwanted emails
B. Phishing	II. Gives the originator access to all data entered by the keyboard
C. Spyware	III. Identity fraud
D. Spam	IV. Illegal use of personal data

Choose the correct answer from the options given below:

A. A - I, B - III, C - II, D - IV

B. A - II, B - IV, C - III, D - I

C. A - IV, B - I, C - III, D - II

D. A - IV, B - III, C - II, D - I



15. Which of the following statements are correct?

- A. The average of first twenty multiples of 8 is 84
- B. There are 25 prime numbers between 100 to 200.
- C. Average of ten positive numbers is X. If each number is increased by 10%, then new average increases by 11%.

Choose the correct answer from the options given below

- A. A and B only
- B. A and C only
- C. A only
- D. B and C only

16. Anaerobic digestion of sewage sludge is

- A. An effective process for organic solids
- B. This process requires lots of energy
- C. This process generates methane as an end product
- D. Digested sludge is reduced in volume and easily dewatered
- E. Very fast process and thus does not require large sized reactors

Choose the *correct* answer from the options given below:

- A. A, B and C only
- B. A, C and D only
- C. A, C, D and E only
- D. B, C, D and E only



17. The unit digit of the product of first 22 natural number is ____

- A. 0
- B. 2
- C. 4
- D. 6

18. *"A young child goes near an iron ball, feels the radiation of heat; from that she concludes that the ball must be quite hot and returns without physically touching the ball."*

Here the cognition is through:

- A. Inference
- B. Knowledge through analogical reasoning
- C. Perception
- D. Verbal authority

19. Identify the correct set of key mandate areas of the National Knowledge Commission

- A. Access
- B. Concepts
- C. Delivery
- D. Applications
- E. Services



Choose the *correct* answer from the options given below:

- A. A, B, C and D only
- B. A, B, D and E only
- C. A, C, D and E only
- D. B, C, D and E only

20. Given below are two statements

Statement I: Asamavyāpti corresponds to the Universal Affirmative proposition.

Statement II: Samavyāpti corresponds to the Universal Negative proposition.

In light of the above statements, choose the *correct* answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false



21. Power and status are said to cause _____ barriers in communication.

- A. Cultural
- B. Physical
- C. Semantic
- D. Technological

22. Given below are two statements

Statement I: As per Piaget's stages of cognitive development, the child learns a language and begins to use symbols to represent objects during the pre-operational stage.

Statement II: As per Piaget's stages of cognitive development, the child learns through reflexes, senses and movement-actions on the environment during the formal operational stage.

In light of the above statements, choose the *correct* answer from the options given below

- A. .Both Statement I and Statement II are false
- B. .Both Statement I and Statement II are true
- C. . Statement I is false but Statement II is true
- D. .Statement I is true but Statement II is false



23. Who proposed theory of meaningful verbal learning?

- A. Benjamin Bloom
- B. David Ausubel
- C. Jerome Bruner
- D. Lawrence Kohlberg

24. Which of the following statements are correct?

- A. A proposition and E proposition are contradictories
- B. A proposition and O proposition are contradictories
- C. E proposition and O proposition are contradictories
- D. I proposition and O proposition are contraries
- E. I proposition and O proposition are subcontraies

Choose the *correct* answer from the options given below:

- A. A, C and D only
- B. A, D and E only
- C. B and D only
- D. B and E only



25. The **NEP-2020** envisions higher education as

- A. playing an important role in promoting human as well as societal well being
- B. enabling system for personal accomplishments with no economic contribution to society or public engagement
- C. a system with less emphasis on development of cognitive skills and achieving learning outcomes
- D. a system with identified sets of skills and values to be incorporated at each stage of learning from pre school to higher education
- E. a system which needs complete overhaul and energising to overcome the challenges faced by the system

Choose the *correct* answer from the options given below:

- A. A, B and C only
- B. A, D and E only
- C. B, C and D only
- D. C, D and E only



26. Given below are two statements

Statement I: -

The Wood's Despatch recognised for the first time that the government should give frank and cordial support to female education and take effective measures for its expansion

Statement II: -

Girl candidates were allowed to appear in the matriculation examination for the first time by Calcutta University

In light of the above statements, choose the *most appropriate* answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct



27. Given below are two statements

Statement I:-

Questionnaires are filled in by the participants themselves.

Statement II:-

Interview schedule is filled in by the interviewer/researcher.

In light of the above statements, choose the *most appropriate* answer from the options given below

- A. .Both Statement I and Statement II are correct
- B. .Both Statement I and Statement II are incorrect
- C. .Statement I is correct but Statement II is incorrect
- D. .Statement I is incorrect but Statement II is correct



28. Following are the objections against mixed methods research:

- A. Quantitative and qualitative research are epistemologically different
- B. Quantitative research is better than the qualitative research
- C. Aims of quantitative and qualitative research are different
- D. Ontological assumptions of quantitative and qualitative research may be different
- E. Quantitative and qualitative research are paradigmatically incompatible

Choose the *correct* answer from the options given below:

- A. A, B, C and D only
- B. A, B, D and E only
- C. A, C, D and E only
- D. B, C, D and E only

29. The concept "paradigm" is associated with:

- A. Imre Lakatos
- B. Karl Popper
- C. R. A. Fisher
- D. T. S. Kuhn



30. Given below are two statements regarding the data bus in the computer system

Statement I:-

Data bus sends data between the processor, memory unit and the I/O devices.

Statement II:-

It is uni-directional

In light of the above statements, choose the *correct* answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

31. AICTE is not dealing with the maintenance of standards in which one of the following areas?

- A. Hotel Management
- B. Nursing
- C. Pharmacy
- D. Town Planning



32. Match List I with List II

List I	List II
Research Concepts	Definitions
A. Constant	I. A mode of interview whereby there are several participants with an emphasis on the questioning on a tightly defined topic
B. Semiotics	II. The segment of the population selected for research
C. Sample	III. An attribute in its Terms of which cases do not differ
D. Focusgroup	IV. An approach to the analysis of documents and other phenomenon

Choose the correct answer from the options given below:

A. .A - I, B - III, C - II, D - IV

B. .A - II, B - III, C - I, D - IV

C. .A - III, B - IV, C - II, D - I

D. .A - IV, B - I, C - II, D - III



33. Being a smart consumer of media means:

- A. Being adept at recognizing subtle and not subtle forms of messages
- B. Belief in a few mass media channels
- C. Disbelief in messages received,
- D. Following a few select TV channels one likes

34. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:-

In a valid categorical syllogism, the middleterm must be distributed in at least one premise.

Reason R:-

The conclusion of a valid argument cannot assert any more than is contained in the premises.

In light of the above statements, choose the *correct* answer from the options given below

- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A



35. In the ancient Buddhist system of education, the student after being admitted to a monastery had to renounce all the worldly and family relationships.

This was termed as _____

- A. Pravajya
- B. Samvartan
- C. Upnayan
- D. Upsampuda

36. A class conducted on Google Meet in which students and teachers are engaged in discussion in an instance of:

- A. Downward communication
- B. Group communication
- C. Intrapersonal communication
- D. Mass communication



37. Match List I with List II

List I	List II
A. Central Institute of English and Foreignlanguages	I. Chitrakoot
B. Gramodaya Vishwa Vidyalaya	II. Hyderabad
C. Central Institute of Tibetan studies	III. Bangalore
D. Indian Institute of Science	IV. Dharamshala

Choose the correct answer from the options given below:

A. A - I, B - III, C - IV, D - II,

B. A - II, B - I, C - IV, D - III,

C. A - III, B - IV, C - II, D - I,

D. A - IV, B - I, C - II, D - II,



38. Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A:-

Coastlines are considered as high potential areas for wind energy generation.

Reason R:-

Ocean water can be utilized as coolant during wind energy production

In light of the above statements, choose the *most appropriate* answer from the options given below

- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A
- D. Both A and R are correct but R is NOT the correct explanation of A



39. Given below are two statements

Statement I:-

The single discount equivalent to a series discount of 10 %, 30 % and 50 % is 68.5%

Statement II:-

The single discount equivalent to a series discount of 10 %, 20 % and 40 % is 43.2%

In light of the above statements, choose the *correct* answer from the options given below

- A. .Both Statement I and Statement II are false
- B. .Both Statement I and Statement II are true
- C. .Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false



40. Match List I with List II

List I	List II
Hazardous waste	Characteristic feature
A. Ignitable	I. Very unstable
B. Corrosive	II. Causes serious health issues
C. Reactive	III. Destroy containers
D. Toxic	IV. Able to sustain combustion

Choose the correct answer from the options given below:

A. .A - I, B - II, C - IV, D - III

B. .A - I, B - IV, C - II, D - III

C. .A - IV, B - III, C - I, D - II

D. .A - IV, B - III, C - II, D - I

41. The Latin words "Communis" or "Communicare" from which the term "Communication" is derived, means:

- A. Make common, the information available
- B. Make something uncommon
- C. Produce information
- D. Provide specific information

42. Match List I with List II

List I	List II
Indian ICT initiative	Purpose
A. e- Gyankosh	I. Open educational resources developed by NCERT in 2013
B. e- Pathshala	II. Digital repository of learning resources developed by ODL institutions
C. NROER	III. Educational e-resources developed by NCERT in 2015
D. NDL	IV. Virtual repository of learning resources with single window search facility developed by IIT, Kharagpur



Choose the correct answer from the options given below:

- A. A - I, B - IV, C - II, D - III
- B. A - II, B - III, C - I, D - IV
- C. A - III, B - I, C - IV, D - II
- D. A - IV, B - II, C - III, D - I

43. The Ethernet is

- A. A device that can communicate with another computer
- B. A program that identifies and moves traffic across local segments
- C. A protocol designed for wireless MANs
- D. A system that connects a number of computers or devices together to form a LAN

44. The Trojan horses

- A. A software that gathers information by monitoring
- B. Are malicious programs often disguised as legitimate software,
- C. Are viruses that can replicate themselves
- D. Search automatically for an item on the internet



45. Identify the fallacy committed in the argument:

"The policies suggested by him have no merit since he was once charged with embezzlement".

- A. Appeal to Inappropriate Authority
- B. Appeal to Pity
- C. Argument ad Hominem abusive
- D. Argument from Ignorance

Read the given passage and answer the questions that follow (46 – 50)

Most of the people who appear most often and most gloriously in the history books are great conquerors, generals and soldiers, whereas the people who really helped civilization forward are often never mentioned at all. We do not know who first set a broken leg, or launched a seaworthy boat, or calculated the length of the year, or manured a field, but we all know all about the killers and destroyers. People think a great deal of them, so much so that on all the highest pillars in the great cities of the world you will find the figure of a conqueror or a general or a soldier. Most people believe that the greatest countries are those that have beaten in battle, the greatest number of other countries and ruled over them as conquerors. It is just possible they are, but they are not the most civilized. Animals fight; so do savages; hence to be good at fighting is to be good in the way in which an animal or a savage is good, but it is not to be civilized.



Even being good at getting other people to fight for you and telling them how to do it most efficiently- this, after all, is what conquerors and generals have done-is not being civilized. People fight to settle quarrels. Fighting means killing and civilized people ought to be able to find some way of settling their disputes other than by seeing which side can kill off the greater number of the other side and then saying that, that side which has killed most has won. And not only has won, but because it has won, has been in the right. For that is what going to war means; it means saying that might is right.

46. In the author's opinion, the countries that ruled over a large number of other countries are:

- A. certainly not the greatest in any way
- B. neither the greatest nor the most civilized
- C. possibly the greatest in some sense but not the most civilized
- D. possibly the most civilized but not the greatest

47. On all the highest pillars in the great cities of the world, we find:

- A. a figure representing the number of conquerors, generals and soldiers in that country
- B. the figure of a person who helped civilization forward
- C. the figure of some conqueror or general or soldier
- D. the figure of the same conqueror or general or soldier



48. "That is what going to war means; it means saying that might is right"

the meaning of this sentence is that:

Options:-

- A. in a war only those who are powerful will win
- B. only those who are powerful should go to war
- C. the winner is right and the loser wrong
- D. those who are right should fight against those who are wrong

49. Most people believe that the greatest countries are:

Options:-

- A. those that built the highest pillars
- B. those that defeated a few countries
- C. those that were beaten in battle by the greatest number of other countries,
- D. those that won the greatest number of battles against other countries



50. In the first sentence, the author says that:

- A. .Conquerors, generals and soldiers should not be mentioned in history
- B. .History books tell us far more about conquerors and soldiers than about those who helped civilization forward
- C. . Most history books were written by conquerors, generals and soldiers
- D. . No one who really helped civilization forward is mentioned in any history book

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Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	C	11	C	21	C	31	B	41	A
2	B	12	C	22	D	32	C	42	B
3	D	13	A	23	B	33	A	43	D
4	C	14	D	24	D	34	D	44	B
5	A	15	C	25	B	35	A	45	C
6	A	16	B	26	A	36	B	46	C
7	D	17	A	27	A	37	B	47	C
8	C	18	A	28	C	38	D	48	C
9	A	19	B	29	D	39	D	49	D
10	A	20	B	30	D	40	C	50	B

*This Answer key is tentatively released by NTA - NET



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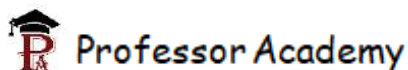
QUESTION PAPER-9

50 Questions

Study the given table carefully and answer the questions that follow.

The given table has the number of students enrolled for different courses in 5 different years along with their male and female categorization. (1-5)

Year	B.sc		BA		B.Com	
	M	F	M	F	M	F
2016	380	220	520	405	200	80
2017	390	230	525	417	210	85
2018	395	235	535	427	212	87
2019	405	250	538	430	215	91
2020	415	275	543	438	221	97



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1. Find out the average of difference between male and female students for the BA course during 2016-2020.

- A. 105.3
- B. 107.4
- C. 108.8
- D. 109.2

2. Find out the total number of male students in the college during 2018-2020.



- A. 3479
- B. 3480
- C. 3481
- D. 3482



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3. Find out the ratio between female students of BA and BCom during 2016-2020

- A. 2115/442
- B. 2115/440
- C. 2117/442
- D. 2117/440

4. Which year has the minimum percentage increase of male students in the college (including all courses)?

- A. 2017
- B. 2018
- C. 2019
- D. 2020



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5. Find out the ratio between the percentage increase of male students and the percentage increase of female students from 2016 to 2017.

A. 2.5/3.6

B. 2.2/3.6

C. 2.5/3.8

D. 2.5/3.8

6. Which of the following are popular software (apps) used for conducting online conferences?

A. Big Blue Button

B. ZOOM

C. KOHA

D. Microsoft Teams

E. Moodle

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below:

A. A, B and D only

B. A, B and C only

C. A, C and E only

D. C, D and E only

7. Eutrophication in a water body leads to which of the following?

A. Bloom of algae

B. Increase in the level of dissolved oxygen (DO)

C. Increase in turbidity and odor of the water body

D. Difficulty in sustaining normal aquatic life

E. Deficiency of nutrients



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Choose the correct answer from the options given below:

- a) A, B and C only
- b) A, C and D only
- c) B, C and D only
- d) C, D and E only

8. Given below are two statements regarding the Hard Disk Drive (HDD)

Statement I: HDD use circular platters coated in magnetic material.

Statement II: Access to data is faster than with RAM

In light of the above statements, choose the correct answer from the options given below


- A. Both Statement I and Statement II are false,
- B. Both Statement I and Statement II are true,
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false,



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9. Which of the following statements regarding Modems are correct?

A. It is used to convert digital data into analogue

B. It also converts analogue data into digital data

C. Sends the data packet to specific addresses

D. Inspects data packets received over the internet

Choose the correct answer from the options given below

A. A and B only,

B. A, B and C only,

C. B and C only,

D. B, C and D only,



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

10. Match List I with List II

List I	List II
Network Addresses	Respective Layers
A. IP Address	I. Application Layer
B. MAC Address	II. Network Layer
C. Socket Address	III. Transport Layer
D. URL Address	IV. Data Link Layer

Choose the correct answer from the options given below:

A. A - I, B - II, C - III, D - IV

B. A - I, B - IV, C - II, D - III

C. A - II, B - IV, C - III, D - I

D. A - III, B - I, C - II, D - IV



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11. Six years ago, the ratio of the ages of Ravi and Laxmi was 6:5. Four years hence, the ratio will be 11:10. Ravi's age at present is

- A. 10 years
- B. 12 years
- C. 16 years
- D. 18 years

12. The objective of exploring the existing literature should be to identify which of the following issues?

- A. What is already known about this area?
- B. What concepts and theories are relevant to this area?
- C. How to get funding for the research?
- D. What are the significant controversies in this area?
- E. Are there any inconsistencies in the findings of this area?



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below:

A. A, B, C and D only

B. A, B, C and E only

C. A, B, D and E only

D. B, C, D and E only

13. A vendor marks all his goods at 50% above the cost price and then offers a discount of 25% on the marked prices.

What is his profit on the sales?

A. 12.50%

B. 20.50%

C. 22.50%



D. 25%



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14. The primary treatment of wastewater involves removal of

- A. Colloids
- B. Microorganisms
- C. Organic water
- D. Solids

15. Which of the following has positive radiative forcing or warming effect in the global climate?

- A. Stratospheric Ozone
- B. Sulphate Aerosol
- C. Sulphur dioxide
- D. Tropospheric Ozone



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

16. Given below are two statements

Statement I: The Hansa Mehta committee made a recommendation that there is a need to make differentiation in curriculum on the basis of sex.

Statement II: Bhaktavalsalan committee recommended that the government and public should both act jointly, realise their responsibilities and proceed in a planned manner with regard to education of girls in future.

In light of the above statements, choose the most appropriate answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct



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17. NSFQ organises qualification according to series of levels of

- A. Knowledge, Skills, Aptitude
- B. Knowledge, Skills, Experience
- C. Skills, Achievement, Aptitude
- D. Skills, Experience, Aptitude

18. Which one of the following is a part of the processor?

- A. Address bus
- B. Cache memory
- C. Control unit
- D. Data bus



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

19. Match List I with List II

List I	List II
Erikson's Stages of Psychological Development	Relevant Illustrations
A. Basic trust versus basic mistrust	I. Parenting/ mentoring
B. Industry versus inferiority	II. Love relationships
C. Intimacy versus isolation	III. School
D. Generativity versus stagnation	IV. Feeding

A. A - I, B - II, C - III, D - IV

B. A - III, B - IV, C - I, D - II

C. A - IV, B - III, C - II, D - I

D. A-II, B - I, C - IV, D - III



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20. What is the name of the concept to describe the magnitude of gains from any given change in an educational practice and thus to predict what we can hope to accomplish by using that practice?

- A. Argumentation
- B. Effect size
- C. Empathy
- D. Pluralism

21. Analogies have been used for which of the following purposes?

- A. Inductive reasoning
- B. Deductive reasoning
- C. Description
- D. Explanation



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below

- A. A, B and D only
- B. A, B and C only
- C. A, C and D only
- D. An, C and D only

22. Identify the fallacy committed in the argument below.

Some good actors are not strong men.

All professional wrestlers are strong men.

Therefore, all professional wrestlers are good actors.

- A. Fallacy of drawing affirmative conclusions from negative premise
- B. Fallacy of Illicit Major
- C. Fallacy of Illicit Minor
- D. Fallacy of Undistributed Middle

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

23. Given below are two statements

Statement I: Methanol CH_3OH also known as wood alcohol and has a much higher octane rating than gasoline.

Statement II: Methanol burns with higher flame temperature than gasoline or diesel. Thus, it produces a higher amount of NO_x .

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false



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24. Human communication involves

- A. Patterned social interactions
- B. Use of abstract meanings only
- C. Conflict-oriented actions only
- D. Neural activities of the brain
- E. Psychological activities

Choose the correct answer from the options given below:

- A. A, B and C only
- B. A, D and E only
- C. B, C and D only
- D. C, D and E only



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

25. "Destiny of India is being shaped in her classrooms". This is stated in

- A. Education Commission
- B. NKC report
- C. NPE -1986 - 1986
- D. University Education Commission

26. Match List I with List II

List I	List II
Communication Components	Description
A. Medium	I. Facts
B. Channel	II. Verbal and non-verbal signs
C. Codes	III. Route by which the message travels
D. Content information	IV. Physical means to transmit the message

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below:

A. A - I, B - II, C - III, D - IV

B. A - III, B - IV, C - I, D - II

C. A - IV, B - III, C - II, D - I

D. A-II, B - III, C - IV, D - I

27. Which one of the following is not an objective of higher education?

A. Career Development

B. Improving literacy levels

C. Research



D. Teaching



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28. Identify the correct sequence of the following types of visual communication.

A. Objects

B. Maps

C. Graphs

D. Photographs

E. Models

Choose the correct answer from the options given below

A. A, B, D, C, E

B. A, E, C, B, D

C. B, D, E, C, A

D. C,A, D, B, E

29. Identify the correct sequence for phases of personal growth in the non-directive interview process.

A. Develops insight

B. Integration

C. Release of feelings

D. Action

E. New orientation

Choose the correct answer from the options given below

A. A, B, C, D, E

B. B, E, D, A, C

C. C, A, D, B, E

D. C, E, B, A, D



30. Anumana has been accepted as an independent source of valid knowledge by which of the following schools?

A. Buddhists

B. Naiyāyikas

C. Cārvākās

D. Mīmāṃsakas

E. Advaitins

Choose the correct answer from the options given below

A. A and B only

B. A, B and C only

C. A, B, D and E only

D. B, C, D and E only



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

31. Given below are two statements

Statement I: A culture of bacteria quadruples every hour. If a bottle with these bacteria was half-full at 7 am, then at 6 am on the same day, the bottle was one-eighth full.

Statement II: The average of the first 31 natural numbers is 16.5.

In light of the above statements, choose the correct answer from the options given below

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false



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32. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Environmental education makes individuals aware of environmental issues, explore and analyse causes and effectiveness of the issues, and promotes environmental sustainability.

Reason R: It is very essential to think and act creatively to become technically capable and trained to approach environmental issues in a proactive manner.

In light of the above statements, choose the most appropriate answer from the options given below

- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A
- D. Both A and R are correct but R is NOT the correct explanation of A

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

33. Match List I with List II

List I	List II
Contexts	Examples
A. Context of discovery	I. From the particular to a generalisation
B. Inductive reasoning	II. Testing or verifying the hypothesis
C. Abductive reasoning	III. Hypothesis generation
D. Context of justification	IV. Inference based on some observations

Choose the correct answer from the options given below:

A. A - I, B - III, C-II, D-IV

B. A - III, B - I, C - IV, D - II

C. A - IV, B - III, C - I, D-II

D. A-II, B - I, C - IV, D - III

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

34. Match List I with List II

List I	List II
In Square of opposition	Resultant
A. If 'Some flowers are pink' is False	I. 'T' is False; 'O' is True
B. If 'No girls are birds' is True	II. 'A' is False; 'E' is True
C. If 'Some boys are not tall' is False	III. 'T' is True; 'O' is False
D. If 'All chocolates are sweet' is True	IV. 'E' is False; 'I' is true

Choose the correct answer from the options given below:

A. A - II, B - I, C - IV, D - III

B. A - III, B - IV, C - II, D - I

C. A - IV, B - II, C - I, D - III

D. A-II, B - III, C - I, D - IV



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

35. Given below are two statements

Statement I: Behaviour theory does not concentrate on observable behaviour.

Statement II: Behaviour theory approach involves continuous inquiry.

In light of the above statements, choose the most appropriate answer from the options given below

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

36. Two trains are moving in same direction at 60 km / hr and 45 km / hr. The faster train passes a girl sitting in the slower train in 15 seconds. The length of the faster train is

- A. 165 m
- B. 22.5 m
- C. 225 m
- D. 62.5 m

37. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: A proposition is a statement about observable phenomena (concepts) that may be judged as true or false.

Reason R: When a proposition is formulated for empirical testing, it is called a hypothesis.

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In light of the above statements, choose the most appropriate answer from the options given below

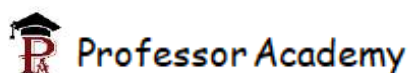
- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A
- D. Both A and R are correct but R is NOT the correct explanation of A

38. Given below are two statements

Statement I: Context of discovery involves non-rational, intuitive processes while context of justification is based on logical processes.

Statement II: The process of hypothesis generation doesn't strictly follow rigorous logical reasoning.

In light of the above statements, choose the most appropriate answer from the options given below



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- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

39. If the research is to be conducted on very young children or inarticulate persons, which one of the following methods will be appropriate in this situation?



- A. Case history
- B. Experiment
- C. Observation
- D. Survey



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40. What comes next in the following sequence?

1, 2, 3, 7, 16, 65, ?

A. 225

B. 228

C. 287

D. 321

41. Who is the Executive Head of the National Disaster Management Authority (NDMA)?

A. A member of Parliament appointed by the President

B. Chief of the Army Staff

C. President of India

D. Prime Minister of India



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42. Colour, as a means of communication, has meanings that mostly emanate from one's own

- A. Choices
- B. Culture
- C. Educational background
- D. Social status

43. What is a disk defragmenter?

- A. Carry out a backup procedure
- B. Check disk drives for empty space
- C. Compress data before writing it on the hard disk
- D. Rearrange blocks of data to store files in contiguous sectors



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

44. Given below are two statements

Statement I: A two-way communication takes place when the encoding and decoding are in operation with equal frequency by two or more individuals.

Statement II: The communicator and the communicatee are related by the communication circuits and the success of communication depends upon the level of reciprocity between them.

In light of the above statements, choose the most appropriate answer from the options given below

Options:-

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

45. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Naiyāyikas do not accept non-apprehension (anupalabdhi) as a distinct source of knowledge (pramāna).

Reason R: According to Naiyāyikas, non-apprehension can be covered under inference (anumāna).

In light of the above statements, choose the correct answer from the options given below

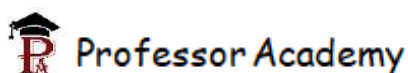
- A. A is false but R is true
- B. A is true but R is false
- C. Both A and R are true and R is the correct explanation of A
- D. Both A and R are true but R is NOT the correct explanation of A

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Read the given passage and answer the questions that follow (46 – 50)

Besides being hailed as a technology which can deliver the 'global village', the Internet is also promoted as a singular medium which allows for democratised processes which were not previously possible in the era of broadcast. but what kinds of democracy are being postulated here?

Traditionally, and more than ever now, democracy is heavily aligned with the nation-state. Because of this, no sense is made of the claim that the Internet enables universal participation in the democratic process. The point here is the practices of communication afforded by computermediated communication may be able to substitute some of the functions of the mass media- for example, in the formation of pre-institutional public opinion. But these practices do not necessarily exert pressure on the institutional apparatuses of politics. Of course, the mass media themselves, as a means of electronically mediated communication, can never replace the institutional apparatuses of politics, and as found out by numerous studies, have been just as much used by politicians as they have influenced them. The internet can be classified as a global

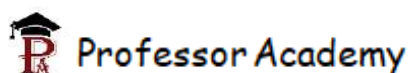


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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

technology, which enables connections with individuals and institutions overseas just as easily as it does nationally, regionally or locally, If there is an imagined community on the Internet, it is definitely not the nationstate. State bounded kinds of citizenship cannot be considered coterminous with the kinds of citizenship which are achieved on the Internet. However, this is not to argue that a global sense of citizenship, even if it too is an 'imagined one', cannot exist. Recent protests against international financial institutions such as the World Bank were organised almost entirely through Internet media - a case of not-so-visible electronic assemblies producing very visible embodied assemblies. But even that the experience of community on the Internet is not limited to national boundaries, it is also important to consider the shape and structure of virtual communities.



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46. The crux of the passage is that the Internet:

- A. can help organise people's assemblies-
- B. can provide segmented experience of the world-
- C. has limited use in politics-
- D. is an all-powerful medium-

47. What is the main weakness of the Internet?

- A. Electronic media is more powerful than the Internet
- B. It cannot produce a global sense of citizenship
- C. It cannot substitute political institutions
- D. Virtual citizenship is coterminous with national citizenship



48. Even now the nation-state influences

- A. Its citizens
- B. Its imagined communities
- C. The democratic process
- D. The globalisation concept

49. Internet is considered as a prime medium for its?

- A. Better than the broadcast medium
- B. Far-reaching accessibility
- C. Position as a technological medium
- D. Promotion of a new type of democratisation



50. In what way, can the internet play a role in modern society?

- A. Being a substitute to traditional broadcast media
- B. By playing a supportive role to conventional media
- C. By shaping institutional public opinion
- D. By taking an active part as a political institution



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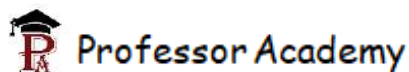
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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	C	11	D	21	C	31	D	41	D
2	A	12	C	22	A	32	D	42	B
3	D	13	A	23	D	33	B	43	D
4	C	14	D	24	B	34	A	44	A
5	D	15	D	25	A	35	D	45	C
6	A	16	A	26	C	36	D	46	A
7	B	17	A	27	B	37	D	47	C
8	D	18	C	28	B	38	A	48	C
9	A	19	C	29	C	39	C	49	D
10	C	20	B	30	C	40	D	50	C

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UGC - NTA - NET - PAPER 1 - 2021

QUESTION PAPER-10

50 Questions

Study the table carefully and answer the questions that follows :

In the following table, the total number of students in different courses of a college along with percentage of males and females are given: I (1-5)

Courses	Total number of students	Percentage of male students (%)	Percentage of female students (%)
B.Sc.	400	65	35
B.A.	650	54	46
M.Sc.	280	75	25
M.A.	340	55	45
PhD	180	65	35

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

1. Find out the difference between male students in graduation (BSc + BA) and male students of post-graduation (MA + MSc).

A. 213

B. 214,

C. 215

D. 216

2. Find out the ratio of female students in graduation (BSc + BA) and female students in post-graduation (MSc + MA)

A. .435/ 217

B. . 437/ 223

C. . 438/ 219 ,

D. . 439/ 223

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

3. Find out the difference between the total number of male students and total number of female students in the college.

A. .380

B. .390

C. .400

D. .410

4. Find out the ratio of male students in post-graduation (MSc + MA) and male students in the PhD program.

A. .394

B. .395

C. .396

D. .397



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

5. Find out the total number of male students in the college.

A. .1120

B. . 1125

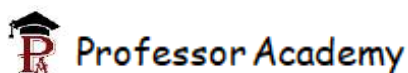
C. . 1130

D. . 1135

6. Given below are two statements

Statement I: It is obvious that if higher education is not radically improved, our administration and technical progress, our intellectual standards and social advance will be most seriously handicapped. This is a major recommendation of the University Education Commission

Statement II: The University Grants Commission was established in accordance with the recommendation of the National Education Commission



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

In light of the above statements, choose the most appropriate answer from the options given below

- A. . Both Statement I and Statement II are correct
- B. . Both Statement I and Statement II are incorrect
- C. . Statement I is correct but Statement II is incorrect
- D. . Statement I is incorrect but Statement II is correct

7. Which one of the following led to the formulation of 10+2+3 system of education?

- A. .Elphinstone report
- B. . Hunter Commission
- C. . Macaulay's Minute
- D. . Wood's despatch



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

8. Average of ten positive numbers is X. If each number is increased by 10 %, then new average increases by:

- A. . 10%
- B. . 11%
- C. . 12%
- D. . 8%

9. Given below are two statements regarding the address bus in a computer system

Statement I:-

Address bus carries signals relating to addresses between the processor and memory

Statement II: -

It is bi-directional



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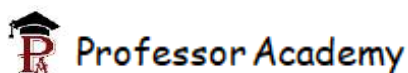
UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

In light of the above statements, choose the correct answer from the options given below

- A. .Both Statement I and Statement II are false
- B. . Both Statement I and Statement II are true
- C. . Statement I is false but Statement II is true
- D. . Statement I is true but Statement II is false

10. Find out the sequence of elements of effective communication as listed by Cutlip et al

- A. Promise of reward
- B. Message clarity
- C. Consistency
- D. Climate of belief
- E. Participatory context



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below

A. .A, B, D, E, C

B. . C, D, E, A, B

C. . D, E, A, B, C

D. . E, A, C, D, B

11. Arrange the phases for syntax of Group Investigations Model in correct sequence:

A. Students formulate study task and organise for study

B. Students analyse progress and process

C. Students encounter puzzling situation

D. Independent and Group study

E. Students explore reactions to the situation



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below

- A. A, C, B, E, D
- B. . B, A, D, E, C
- C. . C, E, A, D, B
- D. . D, E, B, A, C

12. The 4Rs approach to conflict resolution comprises:

- A. Reading B. Writing C. Respect D. Reprimand E. Resolution

Choose the correct answer from the options given below:

- A. .A, B, C and D only
- B. . A, B, C and E only
- C. . A, B, D and E only
- D. . B, C, D and E only



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

13. Which of the following are examples of violation of research ethics?

- A. Violating participant confidentiality
- B. Making recommendations beyond the scope of data collected
- C. Using an inappropriate research design
- D. Changing data to meet a desired outcome
- E. Using a quantitative method in place of a qualitative method

Choose the correct answer from the options given below:

- A. .A, B and D only
- B. . A, B, C and D only
- C. . B, C, D and E only
- D. . B, D and E only

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

14. Which of the following statements is/ are true ?

- A. The terms 'true' and 'false' apply to arguments.
- B. The terms 'true' and 'false' apply to statements.
- C. The terms 'valid' and 'invalid' apply to arguments.
- D. The terms 'cogent' and 'non-cogent' apply to statements.

Choose the correct answer from the options given below:

- A. .A and C only
- B. . A and D only
- C. . B and C only
- D. . C and D only



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

15. Targets of Goal 7 of the Millennium Development Goals (MDG) are

- A. Control global warming
- B. Universal access to modern energy
- C. Increase global percentage of renewable energy
- D. Mitigating air pollution
- E. Double the improvement in energy efficiency

Choose the correct answer from the options given below:

- A. .A, B, C and D only
- B. . A, C, D and E only
- C. . B, C and D only
- D. . B, C and E only

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

16. Given below are two statements

Statement I: The average of first twenty multiples of 9 is 92.5.

Statement II: The average of first ten multiples of 11 is 60.5.

In light of the above statements, choose the most appropriate answer from the options given below

- A. .Both Statement I and Statement II are correct
- B. . Both Statement I and Statement II are incorrect
- C. . Statement I is correct but Statement II is incorrect
- D. . Statement I is incorrect but Statement II is correct

17. As students mature, the study of social issues at the community, state, national and international levels can be made available to them. Which model is designed for this purpose?

- A. .Group investigation
- B. . Jurisprudential inquiry
- C. . Role playing
- D. . Structured inquiry

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

18. ERIC is a unit in which one of the following organisations?

A. .NCERT

B. . NCTE

C. . NIEPA

D. . NRF

19. 'Solar water still' is a device to

A. . Convert saline water to potable water using solar energy

B. Generate electricity using solar energy

C. . Heat water using solar energy

D. . Pump water using solar energy



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

20. As per NEP-2020, the responsibility to develop Adult Educator Framework has been given to which one of the following organisations?

- A. .MHRD
- B. . NCERT
- C. . NCTE
- D. . NIEPA

21. Modern mass communication has the characteristics of being

- A. Sporadic
- B. Continuous
- C. Based on a schedule
- D. Not much dependent on technology
- E. Dependent on the use of media

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Choose the correct answer from the options given below:

- A. .A, B and C only
- B. . A, D and E only
- C. . B, C and E only
- D. . C, D and E only

22. Discourse analysis in historical research is associated with

- A. .Carr
- B. . Foucault
- C. . Hobsbawn
- D. . Skinner



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

23. The Gandhian method of communication is known as:

- A. .Massive
- B. . Massline
- C. . Non-technological
- D. . Personal

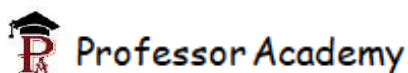
24. Identify the fallacy committed in the argument

No tragic actors are happy men.

Some comedians are not happy men.

Therefore, some comedians are not tragic actors.

- A. .Existential fallacy
- B. . Fallacy of Exclusive Premises
- C. . Fallacy of Illicit Major
- D. . Fallacy of Undistributed Middle



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

25. Match List I with List II

List I	List II
ICT Applications	Example
A. Measurement applications	I. Simulating car crashes
B. Control applications	II. River pollution
C. Modelling applications	III. Automatic oven
D. Expert systems	IV. Medical diagnosis

Choose the correct answer from the options given below:

A. .A - I, B - II, C - IV, D - III

B. . A - II, B - III, C - I, D - IV

C. . A - II, B - III, C - IV, D - I

D. . A - IV, B - I, C - II, D - III

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

26. Find the missing term in the following series 2, 9, 37, 149, ?

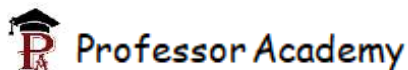
- A. .298
- B. . 299
- C. . 594
- D. . 597

27. Which of the following statements about Anti-virus software are correct?

- A. Problem files/programs are quarantined and can be automatically removed
- B. Check all files before being loaded or run
- C. Use a database to identify potential risks
- D. Used for data authenticity

Choose the correct answer from the options given below:

- A. .A, B and C only
- B. . A, B and D only
- C. . A, C and D only
- D. . B, C and D only



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

28. Given below are two statements

Statement I:-

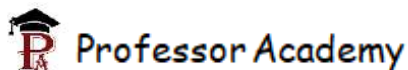
The core of the teaching process is the arrangement of environments within which students can interact and study how to learn.

Statement II:-

A model of teaching is not a description of a learning environment.

In light of the above statements, choose the most appropriate answer from the options given below

- A. .Both Statement I and Statement II are correct
- B. . Both Statement I and Statement II are incorrect
- C. . Statement I is correct but Statement II is incorrect
- D. . Statement I is incorrect but Statement II is correct



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

29. Identify the correct sequence of Inference from beginning to end, according to the Nyāya system.

A. Udaharaṇaṇ

B. Hetu

C. Pratijñā

D. Nigamana

E. Upanaya

Choose the correct answer from the options given below

A. .B, A, C, D, E

B. . B, A, D, C, E

C. . C, A, B, E, D

D. . C, B, A, E, D



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

30. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:-

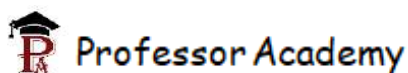
To make it easier for government as well as non-government philanthropic organisations to build schools regulations on inputs should be limited to certain areas only.

Reason R:-

Government should provide effective, enabling and sufficient infrastructure so that all schools have access to safe and engaging school education.

In light of the above statements, choose the most appropriate answer from the options given below

- A. A is correct but R is not correct
- B. A is not correct but R is correct
- C. Both A and R are correct and R is the correct explanation of A
- D. Both A and R are correct but R is NOT the correct explanation of A



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

31. Given below are two statements

Statement I:-

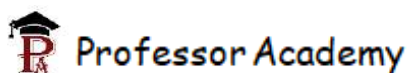
Experimenter effects are errors introduced during the collection or analysis of experimental data due to the behaviour of the experimenter.

Statement II:-

Due to the presence of certain cues in the experimental setting, the participants form an interpretation of the experiment's purpose and subconsciously change their behaviour to fit that interpretation.

In light of the above statements, choose the most appropriate answer from the options given below

- A. .Both Statement I and Statement II are correct
- B. . Both Statement I and Statement II are incorrect
- C. . Statement I is correct but Statement II is incorrect
- D. . Statement I is incorrect but Statement II is correct



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32. Given below are two statements

Statement I:-

In the Nyāya system, inference is made from the particular to the particular through the Universal.

Statement II:-

In the Nyāya system, inference is made from the Universal to the Universal through the particular.

In light of the above statements, choose the most appropriate answer from the options given below

- A. .Both Statement I and Statement II are correct
- B. . Both Statement I and Statement II are incorrect
- C. . Statement I is correct but Statement II is incorrect
- D. . Statement I is incorrect but Statement II is correct

33. Given below are two statements

Statement I:-

Aerobic digestion of sewage sludge requires lots of energy

Statement II:-

Aerobic digestion of sewage sludge produces huge amount of methane

In light of the above statements, choose the correct answer from the options given below

- A. .Both Statement I and Statement II are false
- B. . Both Statement I and Statement II are true
- C. . Statement I is false but Statement II is true
- D. . Statement I is true but Statement II is false



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

34 Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:-

In the case study method, the researcher collects detailed information from a limited number of participants.

Reason R :-

Findings based on case study research can be used to develop research hypotheses/questions for subsequent studies.

In light of the above statements, choose the correct answer from the options given below

- A. .A is false but R is true
- B. . A is true but R is false,
- C. . Both A and R are true and R is the correct explanation of A
- D. . Both A and R are true but R is NOT the correct explanation of A

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

35. Given below are two statements

Statement I: -

Two contrary statements cannot both be false.

Statement II: -

Two contrary statements cannot both be true.

In light of the above statements, choose the correct answer from the options given below

- A. .Both Statement I and Statement II are false
- B. . Both Statement I and Statement II are true
- C. . Statement I is false but Statement II is true
- D. . Statement I is true but Statement II is false



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

36. Match List I with List II

List I	List II
Communication function/Issue	Area of Operation
A. Gatekeeping	I. Time - binding capacity
B. Persuasion	II. News
C. Entropy	III. Advertising
D. Memory	IV. Chaos in communication

Choose the correct answer from the options given below:

A. . A - I, B - II, C - III, D - IV

B. . A - II, B - III, C - IV, D - I

C. . A - III, B - IV, C - I, D - II

D. . A - IV, B - I, C - II, D - III

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

37. Given below are two statements

Statement I: -

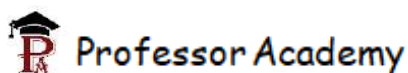
The primary act of communication begins when an individual decides to use a particular language symbol, susceptible to standardised interpretation, resulting in common meaning.

Statement II:-

Meaning refers to inner, subjective reactions to images, interpretations, emotions and feelings as given out by the words used.

In light of the above statements, choose the most appropriate answer from the options given below

- A. .Both Statement I and Statement II are correct
- B. . Both Statement I and Statement II are incorrect
- C. . Statement I is correct but Statement II is incorrect
- D. . Statement I is incorrect but Statement II is correct



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

38. The angle between hour hand and the minute hand at 3:40 pm is

- A. .120°
- B. . 125°
- C. . 130°
- D. . 150°

39. A sum of money on simple interest doubles itself in 10 years . It will triple itself in

- A. .15 years
- B. . 20 years
- C. . 30 years
- D. . 32 years



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

40. A device driver is _____

- A. .A port that connects a device and a system
- B. . A software that communicates with the operating system and translates data into a format understood by the device
- C. . A software that performs disk compression
- D. . A software that performs disk defragmentation



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

41. Match List I with List II

List I	List II
Piaget's Stages of Cognitive Development	Approximate age
A. Sensorimotor	I. Begins about the first grade to early adolescent, around 11 years old
B. Preoperational	II. Adolescent to adulthood
C. Concrete operational	III. 0 - 2 years
D. Formal operational	IV. Begins about the time the child starts talking to about 7 years old

Choose the correct answer from the options given below:

- A. . A - I, B - II, C - III, D - IV
- B. . A - II, B - III, C - IV, D - I
- C. . A - III, B - IV, C - I, D - II
- D. . A - IV, B - I, C - II, D - III

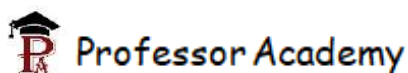
UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

42. Convention on Biodiversity was signed during

- A. .Earth Summit at Rio de Janeiro, 1992
- B. . Human Environment Conference, Stockholm
- C. . Kyoto Protocol, 1997
- D. . Montreal Protocol, 1987

43. What is Anti-spyware software?

- A. . Checks files before they are loaded on a computer
- B. . It detects and removes programs installed illegally on a user's computer system
- C. . Makes the files non-readable
- D. . Manages the data traffic



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

44. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:-

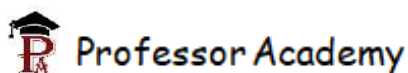
The major deficiency of pre-experimental design is that they fail to provide comparison groups

Reason R:-

Equivalence can be achieved through matching and random assignment.

In light of the above statements, choose the correct answer from the options given below

- A. .A is false but R is true
- B. . A is true but R is false
- C. . Both A and R are true and R is the correct explanation of A
- D. . Both A and R are true but R is NOT the correct explanation of A



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

45. Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A :-

Ground level concentration of ozone decreases at night

Reason R :-

Ultraviolet radiation photolyses the ozone into other components

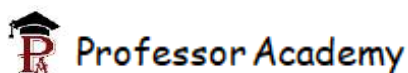
In light of the above statements, choose the correct answer from the options given below

- A. .A is false but R is true
- B. . A is true but R is false
- C. . Both A and R are true and R is the correct explanation of A
- D. . Both A and R are true but R is NOT the correct explanation of A

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Read the given passage and answer the questions that follow (46 – 50)

There is a question whether advertising induces demand for an individual company's product more or less elastic. The evidence indicates that the advertising of brands tends to make their demands relatively inelastic for varying periods of time. The data which support this condition are found in the relatively rigid prices of many advertised articles. That brand advertising would have this effect is natural, for an objective of brand advertising is to build consumer preferences. Some consumers will stick by a brand even though its price relationship with competing brands are disturbed. Clearly, the establishment of strong brand preference has led some manufacturers to act as though these preferences made the demand for their brands relatively inelastic. Rarely have they tested the inelasticity of their brands by raising and holding up their prices when competitors have failed to follow similar procedures. Yet, numerous examples were found in which manufacturers in periods of depression held their prices rigid while prices generally and the prices of some



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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

competitors were being lowered. In all such instances price competition was found to come into play sooner or later, and either demand shifted to sellers with lower prices or a reduction in price was forced. The quickness with which price competition comes into play varies in different product fields. In the fields of proprietary remedies, the highly individualised nature of the branded products and the tendency of consumers to build strong attachments to brands has given these brands an inelastic demand over relatively long periods of time. Even in these instances, however, price competition has eventually developed.

46. The passage focuses upon

- A. .Impact of advertising on product pricing
- B. .Price competition and branded products
- C. .Promotion of branded products in the sellers' market
- D. .Proprietary remedies for branded articles



UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

47. Strong consumer attachment for branded products eventually led to

- A. Branded products falling in line
- B. Cartelisation of manufacturers
- C. Lasting demand inelasticity
- D. Uniform pricing

48. Why do some manufacturers make their brands of products demand inelastic

It is because of

- A. .Competitors increasing the Priceline
- B. . Holding price line
- C. . Market trend
- D. . Strong consumer preference

UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

49. What was the post-depression development as regards product pricing ?

- A. .Increased market for branded products
- B. . Price competition, resulting in reduction
- C. . Shift in demand to consumers
- D. . Stabilisation of prices

50. The demand inelasticity of articles in terms of non-varying prices is due to

- A. .Advertising of branded products
- B. . Consumer ignorance
- C. Differences in products
- D. Varying time factor



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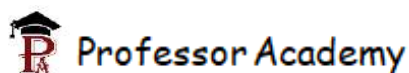
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UGC-NET- Free Question Paper (PAPER 1 - 2021) (Part-B)

Answer Key

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	B	11	C	21	C	31	A	41	C
2	D	12	B	22	B	32	C	42	A
3	C	13	A	23	B	33	D	43	B
4	D	14	C	24	B	34	D	44	D
5	B	15	D	25	B	35	C	45	B
6	B	16	D	26	D	36	D	46	B
7	D	17	B	27	A	37	A	47	C
8	A	18	A	28	C	38	C	48	D
9	D	19	A	29	D	39	B	49	B
10	C	20	B	30	C	40	B	50	A

*This Answer key is tentatively released by NTA - NET



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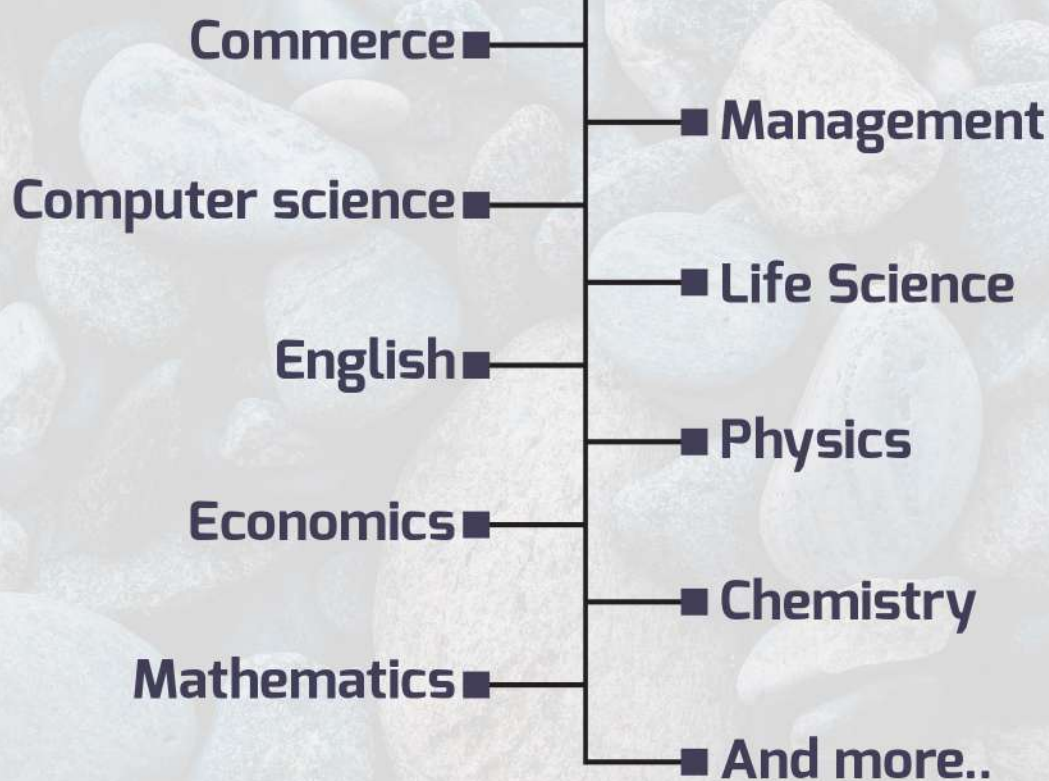
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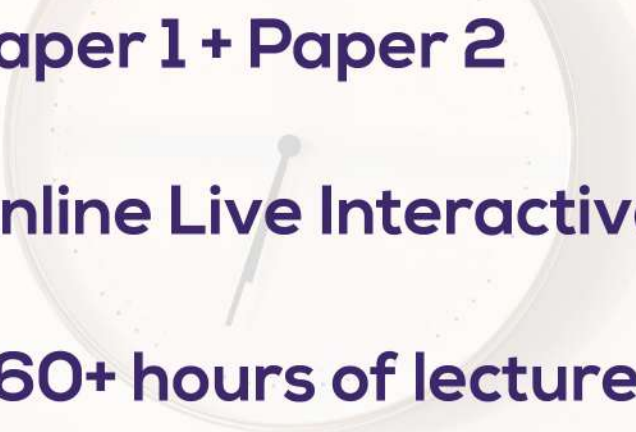
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