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POLYTECHNIC TRB

PRINTING TECHNOLOGY



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Module Name : Printing Technology-E
Exam Date : 08-Dec-2021 Batch : 09:00-12:00

PART-A

1. Size relationships in a design that serves as a transparent underlying structure is called :

A : Balance

B : Unity

C : Value

D : Proportion - **(Correct Answer)**

2. The position and space given to the placement of elements in a composition is called :

A : Proximity - **(Correct Answer)**

B : Grids

C : Rhythm

D : Repetition

3. Achromatic gray is ___ .

A : A mix of black and white - **(Correct Answer)**

B : A mix of cyan and white

C : Cyan, magenta and yellow

D : A mix of all colours

4. The type faces that refer handwriting are called :

A : Script - **(Correct Answer)**

B : Old style

C : New style

D : Decorative

5. The average number of times an audience has an opportunity to be exposed to a media vehicle is called :

A : Average Equity

B : Average Association

C : Average Tradeoff

D : Average Frequency - **(Correct Answer)**

6. ___ is the term used to describe an image which has been mirror reversed.

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A : Flopped - **(Correct Answer)**

B : Folio

C : Reversal

D : Debossing

7. To arrange the pages of a publication before printing in a sequence which will ensure continuity when a sheet is folded is called ___ .

A : Impose — **(Correct Answer)**

B : Key lining

C : Ellipse guide

D : Embossing

8. The prevailing influence of one element in a layout over another is called :

A : Emphasis

B : Dominance - **(Correct Answer)**

C : Dynamism

D : Formatting

9. ___ graphics help people find their way through architectural spaces.

A : Informational

B : Directional - **(Correct Answer)**

C : Enhansive

D : Persuasive

10. ___ is a pictorial image or symbol that represents an idea or concept.

A : Ideogram - **(Correct Answer)**

B : Ideation

C : Pictograph

D : Illustrator

11. The minimum diameter of a Frequency Modulated (FM) screening dot, recommended for offset printing, on coated paper in premier quality is :

A : 14μ m - **(Correct Answer)**

B : 21μ m

C : $> 28\mu$ m

D : $30 - 40\mu$ m

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12. ___ is a perceptual colour model and used for visualization of colour attributes and relationships.

A : RGB

B : HSL - **(Correct Answer)**

C : YCC

D : Munsell

13. One of the following is not a cause for reduction in print density values when measuring with densitometers having correct viewing geometry.

A : Unidirectional surface reflectance

B : Multidirectional surface reflectance - **(Correct Answer)**

C : Total internal reflectance

D : Multiple internal reflectance

14. ___ is the special character used over the second of two vowels in a word to show that they are to be sounded separately.

A : Ligature

B : Acute

C : Dipthong

D : Umlaut - **(Correct Answer)**

15. ___ is the adjustment of space so that one part of a letter extends over the body of another.

A : Letterspacing

B : Kerning - **(Correct Answer)**

C : Ligatures

D : Leading

16. In an Integral tripack emulsion, the top layer is :

A : Panchromatic emulsion

B : Green - sensitive emulsion

C : Red - sensitive emulsion

D : Blue - sensitive emulsion - **(Correct Answer)**

17. ___ technique removes primary colours in deep shadow areas and replace them with black.

A : PCR

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B : LCR

C : GCR

D : UCR - **(Correct Answer)**

18. Moire patterns occur when screen angles are not set with accuracy of :

A : < 0.001°

B : < 0.01°

C : < 0.1° - **(Correct Answer)**

D : < 1° - **(Correct Answer)**

19. Trapping and imposition functions can also take place in the RIP in :

A : Postscript Level 0

B : Postscript Level 1

C : Postscript Level 2

D : Postscript Level 3 - **(Correct Answer)**

20. In electrophotography, the light wavelength when using LED system is in the range of :

A : 400 to 430 nm

B : 660 to 740 nm - **(Correct Answer)**

C : 460 to 540 nm

D : 560 to 650 nm

21. While expressing degree of wetting of a solid surface by a liquid, the contact angle is equal to zero, then there is :

A : No wetting

B : Partial wetting

C : Incomplete wetting

D : Complete wetting - **(Correct Answer)**

22. The surface of the gravure cylinder between wells and the doctor blade rises against it to scrape ink from cylinder is known as ___ .

A : Depth

B : Bottom

C : Bridge — **(Correct Answer)**

D : Opening

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23. Which of the following Gravure cylinder preparation method use 'diamond stylus tool' that cuts into the surface of the gravure cylinder ?

A : Diffusion - Etch process.

B : Laser - cutting process.

C : Direct - transfer process.

D : Electromechanical process. - **(Correct Answer)**

24. Which one of the following plate (image carrier) is known as "factory coated plates" ?

A : Deep-Etch Plate

B : Surface Plate

C : Pre-sensitised Plate - **(Correct Answer)**

D : Bimetal Plate

25. Pre-Sensitised plastic coated plates were originated in ___ .

A : Germany - **(Correct Answer)**

B : Japan

C : China

D : India

26. When stickyback was developed to attach photo-polymers to plate cylinder in Flexographic printing process ?

A : In 1960

B : In 1965

C : In 1970

D : In 1975 - **(Correct Answer)**

27. For preparation of photographic stencil, which of the following medium is used for image generation in Direct image method ?

A : through a transparent negative.

B : through a transparent positive. - **(Correct Answer)**

C : through a opaque negative.

D : through a opaque positive.

28. Which one of the following is 'True' in context to Three-roll ink system of Flexography printing process ?

A : Fountain roller speed is kept constant. - **(Correct Answer)**

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B : Anilox roll speed is kept constant.

C : Doctor blade is used to remove excess ink from the anilox roll.

D : No fountain roll is used in Three-roll ink system.

29. In CTP (Computer To Plate), Thermal Conversion Plates are coated with a reactive material that undergoes a conversion process when exposed to :

A : Helium - Neon laser

B : Ultraviolet laser

C : Argon laser

D : Infrared laser - **(Correct Answer)**

30. For CTP (Computer To Plate), thermal lasers range from :

A : 200 to 400 nm

B : 410 to 640 nm

C : 650 to 1064 nm - **(Correct Answer)**

D : 1065 to 1500 nm

31. Copper is a metal which can be termed as :

A : Oleophilic - **(Correct Answer)**

B : Oleophobic

C : Hydrophilic

D : Hydrophobic

32. Whenever it is necessary to 'trip' an offset machine either because of faulty sheet feeding or immediately prior to stopping, the printing cylinders are moved out of contact by blanket cylinder :

A : Gears

B : Eccentric bearings - **(Correct Answer)**

C : Journal

D : Shaft

33. Offset blanket should be wrapped around the cylinder in its :

A : Diagonal

B : Woof

C : Warp - **(Correct Answer)**

D : Any direction

34. The relationship between force and stretch of paper is called :

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A : Tension

B : Tensile force

C : Elasticity

D : Modulus of Elasticity - **(Correct Answer)**

35. Conductivity of dampening solution are measured in :

A : millivolts/ centimeter

B : microamps/ centimeter

C : micromhos/ centimeter - **(Correct Answer)**

D : microohms/ centimeter

36. Several folds made parallel to each other is :

A : Parallel fold

B : Accordian fold - **(Correct Answer)**

C : Zip-zap fold

D : Ribbon fold

37. _____ printing enables high-quality and consistent reproduction of the finest photographic details in even the smallest of images on thin and flexible printing material and a large number of multiple-ups :

A : Ink-jet

B : Gravure - **(Correct Answer)**

C : Offset lithe

D : Letterpress

38. A charge transport layer is a part of :

A : Organic photoconductor - **(Correct Answer)**

B : Selenium drum

C : Cadmium sulphide

D : Zinc oxide coating

39. Partial transfer of the already printed image section into another image area is :

A : Doubling

B : Ghosting - **(Correct Answer)**

C : Slurring

D : Repeat

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40. Half-size format in newspaper printing is called :

A : Folio

B : Halfsheet

C : Tabloid - **(Correct Answer)**

D : Cut sheet

41. The trimmed/finished size of a visiting card is ___ .

A : A8 size

B : A7 size

C : A6 size

D : A5 size

Correct Answer:- *

42. The cutting marks provided at the sides of the illustration to guide binder to flush cut the plates to be tipped-on is termed as ___ .

A : Signature marks

B : Centre marks

C : Bleed marks - **(Correct Answer)**

D : Tack marks

43. The process of checking the gathered section to ensure that gathered formes are in correct sequence is called ___ .

A : Insetting

B : Slitting the bolt

C : Inspection

D : Collating - **(Correct Answer)**

44. When the total number of formes/sections are arranged on top of each other in sequence, finally to make one complete book is termed as .

A : Insetting

B : Gathering - **(Correct Answer)**

C : Make-up of book

D : Folding

45. Which of the following is a constituent part of a book ?

A : Oddments - **(Correct Answer)**

B : Jacket - **(Correct Answer)**

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C : French-grooves - **(Correct Answer)**

D : Tent Matter

46. Identify the process of book binding, in which, two or three thick cotton cords are placed on the spine of the book to accommodate the thickness of cords. Threads are covered over the cords during sewing process ?

A : Flexible sewing

B : Over cast sewing

C : Sawn - in - sewing - **(Correct Answer)**

D : Double flexible sewing

47. Vellum, a type of leather used as book binder's material is obtained from ___ .

A : Wolf

B : Calf skin - **(Correct Answer)**

C : Pig skin

D : Sheep skin

48. When male and female dies (engraving on metal) are used to make impressions without foil or ink, the process is known as ___ .

A : Velvet printing

B : Blind Embossing - **(Correct Answer)**

C : Cutter crush

D : Applique

49. Steel block in which image is deply engraved for die, stamping and hollow steel die with a sharpened edge for of cutting and creasing is called ___ .

A : Collate

B : Bolt

C : Case

D : Die - **(Correct Answer)**

50. In the process of edge decoration, name the process in which, after gilding, solid gilt edges are cut into different patterns harmonizing with the finishing works on the cover and is done with small hot tools ?

A : Gauffering - **(Correct Answer)**

B : Gilding

C : Marbeling

D : Sprinkling

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51. Fibres suitable for paper making are usually extracted from ___ tissue.

A : Parenchyma

B : Collenchyma

C : Fibro vascular - **(Correct Answer)**

D : Sclerenchyma

52. 'Printing Cushion' is an important property to be considered for which of the following printing methods ?

A : rotogravure printing - **(Correct Answer)**

B : offset printing

C : flexographic printing

D : screen printing

53. The increase of ___ of paper results in the increase of ink consumption.

A : Smoothness

B : Gloss

C : Porosity - **(Correct Answer)**

D : Stiffness

54. For coating papers ___ is used as an adhesive binder.

A : casein - **(Correct Answer)**

B : epoxy

C : gluten

D : albumin

55. The spent liquor containing non fibrous wood component is called as ___ .

A : black liquor - **(Correct Answer)**

B : grey liquor

C : red liquor

D : brown liquor

56. Irregular acceptance of ink into the surface of the paper is called as ___ .

A : Ink mottle

B : Surface mottle

C : Paper mottle - **(Correct Answer)**

D : Hickeys

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57. Azo pigments are used for the preparation of ___ colour inks.

A : cyan

B : magenta

C : yellow

D : both magenta and yellow - **(Correct Answer)**

58. Small pigment crystal size produces ___ .

A : Low transparency and low colour strength

B : Low transparency and high colour strength

C : High transparency and low colour strength

D : High transparency and high colour strength - **(Correct Answer)**

59. Dyes that are insoluble in water and are used as colloidal aqueous solution is called ___ .

A : Direct dyes

B : Disperse dyes - **(Correct Answer)**

C : Mordant dyes

D : Vat dyes

60. Which of the following equation is used to calculate ink tropping in multi colour printing process ?

A : $\left(\frac{\text{density of first printed colour} - \text{density of over print colour}}{\text{density of second print colour}}\right) \times 100$

B : $\left(\frac{\text{density of second print colour - density of first print colour}}{\text{density of over print colour}}\right) \times 100$

C : $\left(\frac{\text{density of over print colour - density of first print colour}}{\text{density of second print colour}}\right) \times 100$

- (Correct Answer)

D : $\left(\frac{\text{density of first print colour - density of second print colour}}{\text{density of varnish}}\right) \times 100$

61. Which one of the following has highest tensile strength at break (psi) ?

A : Poly ethylene (L.D.)

B : Poly ethylene (H.D.)

C : Poly Vinyl Chloride (P.V.C.)

D : Silk - **(Correct Answer)**

62. Moisture barrier value of EVOH i.e. Ethylene Vinyl Alcohol is ___ .

A : 25 gm/m.sq./24 hrs

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B : 50 gm/m.sq./24 hrs

C : 75 gm/m.sq./24 hrs

D : 100 gm/m.sq./24 hrs

Correct Answer:- All Options are Correct

63. Effect of sun light on 'L.D.P.E.' i.e. 'Low Density Poly Ethylene' is that :

A : It gets Yellowed

B : It gets darkened - **(Correct Answer)**

C : It gets faded

D : It gets whitened

64. "HygroScopicity" is an indication of :

A : Uniform behaviour of cushioning material under water.

B : Uniform behaviour of spacer material under water.

C : Uniform behaviour of printing material under water.

D : Uniform behaviour of film under water.

Correct Answer:- *

65. Cushion factor provided by "Rubber-Closed Cell Expanded rubber" of density $12 - 14 lb/ft^3$ is ___ .

A : 3.5 - 4.5

B : 5.5 - 6.5

C : 6.5 - 7.5

D : 7.5 - 8.5

Correct Answer:- *

66. Which one of the following is a Non-resilient Cushioning material ?

A : Rubberised Hair

B : Rubberised Coir

C : Rubber-Open Cell

D : Paper Honey - Comb - **(Correct Answer)**

67. If 0.01 mm aluminium foil holds good for biscuit packaging in the form of laminate, then what is the preference gauge change in strip packaging ?

A : Up to 0.08 mm

B : Up to 0.06 mm

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C : Up to 0.04 mm

D : Up to 0.12 mm

Correct Answer:- *

68. While performing "Fungus Resistance Test" of a packaging material, the test specimen has to be exposed to humidity and temperature for days.

A : 8 Days

B : 18 Days

C : 28 Days - **(Correct Answer)**

D : 38 Days

69. Which one of the following materials is 'NOT' used in Blister Packaging ?

A : Cellulose Acetate

B : Cellulose Propionate

C : Cellulose Tri Acetate

D : Cellulose Acetate Butyrate

Correct Answer:- All Options are Correct

70. While performing salt spray test, the package is exposed to a wet and dense fog containing Sodium Chloride (NaCl) for a period of _____ hours.

A : 100 hrs - **(Correct Answer)**

B : 75 hrs

C : 50 hrs

D : 25 hrs - **(Correct Answer)**

71. Forecast price of material ÷ Actual price of material is called ___ .

A : Material Accuracy Index

B : Forecast Accuracy Index - **(Correct Answer)**

C : Price Accuracy Index

D : Discount Accuracy Index

72. Value of non moving items in an inventory ÷ Total inventory value is equal to :

A : Scrap loss index

B : Obsolescence index - **(Correct Answer)**

C : Scrap index

D : Quality index

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73. (**Profit** ÷ **Sales**) × (**Sales** ÷ (**Fixed Assets** + **Current Assets**)) =

A : Return of Investment - **(Correct Answer)**

B : Economic Order Quantity

C : Profitability Analysis

D : Profitability Index

74. Depreciation allowances and unpaid interest of the owner's own fund are the examples of ___ .

A : Average costs

B : Book costs - **(Correct Answer)**

C : Marginal costs

D : Historical costs

75. A series of receipts or payments of a fixed amount for a specified number of years is called ___ .

A : Annuity - **(Correct Answer)**

B : Book value

C : Depreciation

D : Capital Gain

76. If A = Average number of random arrivals per unit of time

S = Average number of services provided per channel per unit of time

M = Number of available channels, then utilization factor of the system is :

A : $\frac{M \times S}{A}$

B : $\frac{\mathrm{A}}{\mathrm{M} \times \mathrm{S}}$ – **(Correct Answer)**

C : $M \times S \times A$

D : $\frac{S \times A}{M}$

77. A ___ pricing strategy would use a low price to gain market share.

A : Skimming

B : Penetration - **(Correct Answer)**

C : Competitive

D : Perceived

78. _____ segmentation divides the market by psychological differences.

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A : Psychographic - **(Correct Answer)**

B : Behavioral

C : Demographic

D : Geographic

79. In Inventory Management JIT represents :

A : Just in Time - **(Correct Answer)**

B : Just Inside Time

C : Jumbled in Time

D : Jumbled in Target

80. In Costing WACC represents :

A : Weighted Average Cost of Capital - **(Correct Answer)**

B : Weighted Accounting Cost of Capital

C : Weighted Average Cost of Capacity

D : Working Average Cost of Capital

81. "To publish" is commonly defined as ___ .

A : To make public - **(Correct Answer)**

B : To make Private

C : To make print

D : To make digital

82. The publishing of referred or peer-reviewed learned articles sold on subscription to libraries are called ___ .

A : Magazines

B : Books

C : Journals — **(Correct Answer)**

D : Periodicals

83. The right hand facing page of a book is known as ___ .

A : Verso

B : Recto - **(Correct Answer)**

C : Half title Recto

D : Half title Verso

84. In publishing industry, a "Blurb" is :

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A : Usually printed on the front flap of the jacket of a hard book - **(Correct Answer)**

B : Usually printed after the 'Acknowledgement' page

C : Usually printed on the footer, on index page

D : Usually printed on the end of each chapter page

85. In book publishing ___ facilitates the exchange of data between computer systems, saving trade partner's time, errors and cost by avoiding the use and handling of paper.

A : Electronic Data Interchange - **(Correct Answer)**

B : Electronic Data Intermediater

C : Electronic Data Interpretation

D : Electronic Data Interface

86. The alternative to a translation deal, which is used for many highly illustrated colour books and children books, the supply of digital files of their translations to fit around the four-colour illustration is called ___ .

A : Co-publication

B : Co-edition - **(Correct Answer)**

C : Op-edition

D : Co-printing

87. Publication by arrangement between two companies, which could mean the use of both imprints and dividing the profits on title is called ___ .

A : Course Pack

B : Co-Edition

C : Co-Commissioning

D : Co-Publication - **(Correct Answer)**

88. ___ is an error introduced in key boarding a text, also called typo.

A : Notch

B : Literal - **(Correct Answer)**

C : Lith

D : Leading

89. ___ are the links on a web page that enable the user to retrace their route back through the site.

A : Bread crumbs - **(Correct Answer)**

B : Blad

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C : Back list

D : Chick lit

90. In publishing industry, 'Folio' is referred to :

A : A paragraph

B : A page number - **(Correct Answer)**

C : A cover

D : An Electronic Book

91. Quality in the ___ is judged primarily on ability to transfer ink from plate to substrate consistently and without defects while complying with certain technical specifications.

A : Production printing area - **(Correct Answer)**

B : Prepress area

C : Finishing area

D : Designing area

92. What consists of fine positive and negative lines, the finest of which is 4μ m and the thickest 70μ m ?

A : Plate Character Wedge

B : Process Character Wedge

C : Plate Control Wedge (PCW) - **(Correct Answer)**

D : Process Control Wedge

93. The quality control strip is stripped and plated to print :

A : bisecting the gripper edge

B : parallel to the gripper edge - **(Correct Answer)**

C : in the middle of the sheet

D : on the backside of the sheet

94. The slur gauge consists of fine horizontal lines that form the word SLUR on :

A : A vertical line background - **(Correct Answer)**

B : A circular line background

C : A diagonal line background

D : Zig-Zag line background

95. The capability to assess trapping is provided by a solid area of each of the :

A : Underprints

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B : Masking scale

C : Proofing

D : Overprints - **(Correct Answer)**

96. For light transmission, the optical density D is defined in terms of the transmittance T as :

A : $D = \log_{10}(1/T)$ — **(Correct Answer)**

B : $D = \log_{10}T$

C : $D = \log_{10}\sqrt{T}$

D : $D = \log_{10}(1/\sqrt{T})$

97. The increase in dot size comprises two important different components namely :

A : Set-off and hickies

B : Diagonal misregistration and set-off

C : Slurring and doubling - **(Correct Answer)**

D : Picking and ghosting

98. If, (Q) represents 'Quality', (P) represents 'Performance' and (E) represents 'Expectations'; Quality can be quantified as follows :

A : $Q = \frac{P}{E}$ — **(Correct Answer)**

B : $Q = P \times E$

C : $Q = \frac{E}{P}$

D: $Q = P + E$

99. What represents India in ISO ?

A : Batch of Indian Sections (BIS)

B : Bureau of Indian Standards (BIS) - **(Correct Answer)**

C : Batch of Internal Solutions (BIS)

D : Branch of Indian Sections (BIS)

100. An enlargement of dot size to areas that are greater than those required in order to reproduce the tonal values of the original is called :

A : Dot gain - **(Correct Answer)**

B : Disc formation

C : Trapping

D : Superimposition

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101. What will be ratio compounded of the 3 ratios

2 : 3, 6 : 11 and 11 : 2 ?

A : 2 : 1 - **(Correct Answer)**

B : 2 : 3

C : 1 : 2

D : 3 : 2

102. Who is called as 'the Master of the Seven notes of Music'?

A : Pandiya Nedunchezhiyan

B : Cheran Senguttuvan

C : Karikalan - **(Correct Answer)**

D : Mahendiran I

103. Impulse is expressed ___ .

A : Force x Time - **(Correct Answer)**

B : Mass x Acceleration

C : Momentum / Time

D : Mass x Velocity

104. Which one of the following is a Vat dye ?

A : Alizarin

B : Bismarck brown

C : Indigo - **(Correct Answer)**

D : Malachite green

105. A concentric arrangement of bundle sheath cells of the leaves of C-4 plants is called ___ .

A : anamalous thickening

B : kranz anatomy - **(Correct Answer)**

C : cystolith

D : quantosome

106. Who organised green turbaned peasants agitation in 1972 ?

A : E.V.R. Periyar

B : Narayanaswami - **(Correct Answer)**

C : Nallakannu

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D : K. Kamaraj

107. Who was the First Nayak Ruler of Madurai ?

A : Krishnappa Nayak

B : Visvanatha Nayak - **(Correct Answer)**

C : Tirumalai Nayak

D : Chokkanatha Nayak

108. Annie Besant established the Home Rule League at :

A : Bombay

B : Calcutta

C : Madras - **(Correct Answer)**

D : Lucknow

109. 'Fathom' is a unit to measure the :

A : Salinity

B : Volcanic activity

C : Mass movement

D : Sea water depth - **(Correct Answer)**

110. In which Tamil literature, the word 'Sangam' is used?

A : Agathiyam

B : Tholkappiyam - **(Correct Answer)**

C : Thirukural

D : Iraiyanar Ahapporul Urai

PART-B

1. Number of bits per second (bps) that can be sent from one digital device to another is called :

A : Baud - **(Correct Answer)**

B : Bit Depth

C : Bit Map

D : Pixel

2. A6 size in millimeters is :

A : 841 × 1189

B : 148 × 210

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C : 105 × 148 - **(Correct Answer)**

D : 106 x 147

3. American newspaper format in millimeters is :

A : 420 × 598

B : 420 × 599

C : 420 × 588

D : 420 × 578 - **(Correct Answer)**

4. The process of making sure that copy will fit the space allotted for it is called as ___ .

A : Copy right

B : Copy fitting - **(Correct Answer)**

C : Copy writing

D : Copy platform

5. LPI (Lines Per Inch) is a measurement of :

A : Pixel formation

B : Dot measurement

C : Screen ruling - **(Correct Answer)**

D : Colour density

6. The conversion process for interpreting Postscripts to bitmaps is called :

A : Stripping

B : Signature

C : Proofing

D : Rasterizing - **(Correct Answer)**

7. DCS (a file format), also often referred to as EPS5, stands for :

A : Desktop colour separations - **(Correct Answer)**

B : Document colour separations

C : Document colour services

D : Digital character specifications

8. Continuous tone full colour in CMYK represents an image reproduced to a bit depth of :

A : 32 bits (Cx8, Mx8, Yx8, Kx8) - **(Correct Answer)**

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B : 64 bits

C : 128 bits

D : 256 bits

9. Which of the following statement about baking of lithographic plates is not true ?

A : Becomes more resistant to mechanical wear and tear.

B : Becomes more resistant to cleaning fluids, alcohol and other solvents.

C : Non-anodised aluminium is susceptible to flash oxidation.

D : Baking temperature ranges between 300°C to 360°C. - **(Correct Answer)**

10. One of the following is not an advantage for photopolymer system.

A : Sensitive to many UV and visible wavelengths.

B : Susceptibility to oxygen quenching. - **(Correct Answer)**

C : Low molecular weight monomers are water soluble.

D : Simplified photoenergy requirements.

11. Which of the following indicates the right sequence in photopolymerization reaction ?

A : Initiation, Radical generation, Propagation, Termination

B : Radical generation, Initiation, Propagation, Termination - **(Correct Answer)**

C : Initiation, Oxygen inhibition, Propagation, Termination

D : Radical generation, Oxygen inhibition, Propagation, Termination

12. One of the following is not a probable cause for washing off fine dots in flexographic photopolymer plate is :

A : Not enough face exposure

B : Not enough back exposure

C : Over brushing

D : Not enough post exposure - **(Correct Answer)**

13. Loss in colour intensity due to double - transfer principle of offset inks necessitates :

A : High pigment concentration - **(Correct Answer)**

B : High impression pressure

C : High ink film thickness

D : Less dampening solution

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14. Formula for calculating change in print length resulting from a packing change is : Where D = change in length, P = packing change C = % of circumference occupied image

A : $\frac{P\pi C}{100} = D$

B : $\frac{2P\pi C}{100} = D$ – **(Correct Answer)**

C : $\frac{4P\pi C}{100} = D$

D : $\frac{P}{2} \times \frac{\pi C}{100} = D$

15. If a densitometer has a measured value of 100 light units. On placing it on print control patch and 10 units of light is reflected to the photocell. What is the optical density ?

A : 0.1

B : 0.5

C : 1.0 - **(Correct Answer)**

D : 10

16. Polyurethane squeegee blades are made and supplied in a wide range of grades and are colour coded. Match the following with reference to Hardness and colour code.

Hardness in degree shores

(i) 55-60

(ii) 60-70

(iii) 70-80

(iv) 80-90

Colour code

(1) Red

(2) Yellow

(3) Brown

(4) Green/Blue

A : (i)-(2); (ii)-(1); (iii)-(4); (iv)-(3) - **(Correct Answer)**

B : (i)-(4); (ii)-(3); (iii)-(1); (iv)-(2)

C : (i)-(3); (ii)-(2); (iii)-(4); (iv)-(1)

D : (i)-(1); (ii)-(3); (iii)-(2); (iv)-(4)

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17. A type of binding carried out for receipt books, bill books, cheque books etc in cheap cost with the help of machines and also has numbering and perforation is known as ___ .

A : Account book binding

B : Manifold binding - **(Correct Answer)**

C : General and office stationery binding

D : Exercise note book binding

18. The operation "Treatment of Plates" involved in production of book-binding is categorised under :

A : Forwarding operations - **(Correct Answer)**

B : Pre-forwarding operations - **(Correct Answer)**

C : Physical parts of book

D : Preparation for printing

19. ___ is a process of producing raised images / raised printing through the application of powder and heat.

A : Embossing

B : Thermography - **(Correct Answer)**

C : Foiling

D : Varnishing

20. In a Guillotine cutter, the device used to hold a stack of paper and to position it in the desired position on the bed is known as :

A : Moveable Top Guide

B : Moveable Bottom Guide

C : Moveable Front Guide

D : Moveable Back Guide - **(Correct Answer)**

21. Paper manufacturing machine was invented by ___ .

A : Nicholas Louis Robert - **(Correct Answer)**

B : Henry Fourdrinier

C : Sealy Fourdrinier

D : T.B. Crompton

22. Multiply paper and board is produced using ___ machine.

A : twin forming

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B : twin wire - **(Correct Answer)**

C : twin laminating

D : both twin forming and twin laminating

23. Increasing the beating time of wood pulp results in the decrease of ___ .

A : Tensile strength

B : Burst strength

C : Tear strength - **(Correct Answer)**

D : Fold endurance

24. Filaments of ink deposited on top of the previously printed layer due to the formation of ink strings formed during film splitting is called ___ .

A : Hickey

B : Ink lay

C : Paper mottle

D : Ink mottle - **(Correct Answer)**

25. The current industry standard instruments, for caliper test, may it be spring loaded or dead weight in action, apply a pressure of ___ lbs. Over an area of $0.25 in^2$.

A : 5.5 lbs

B : 6.5 lbs

C : 7.5 lbs

D : 8.5 lbs

Correct Answer:- *

26. The Tensile Strength of Nylon at break (psi) is ___ .

A : 66,000-1,30,000

B : 65,000-1,35,000

C : 65,000-1,23,000

D : 66,000-1,38,000

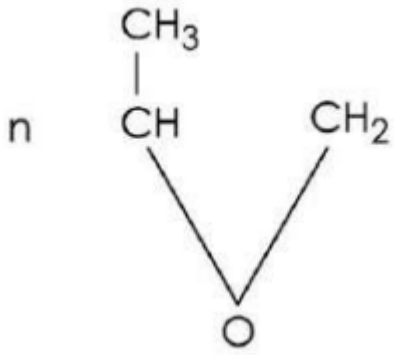
Correct Answer:- *

27. Identify "Caprolactam" which is a synthetic polymer :

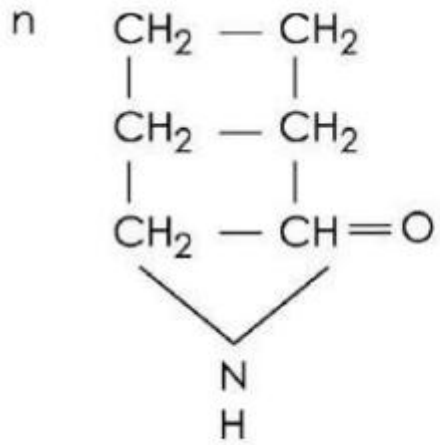
A: $nHOCH_2 - CH_2 - OH$

B :

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C:



– (Correct Alternative)

D : $n - OCH_3 + (2n - 1)CH_3OH$

28. "Dunnage" is a function performed by which one of the following ?

A : Paper shavings

B : Creped Cellulose Wadding

C : Corrugated fiber board

D : Shredded foam plastic

Correct Answer:- All Options are Correct

29. What is the safety stock required if annual demand is 1000 units, ordering cost is ₹ 10 per order, carrying cost is ₹ 10 per unit-year and stock out costs are ₹ 40 each ?

A : 40 units - **(Correct Answer)**

B : 30 units

C : 50 units

D : 10 units

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30. Inventory costs which include the interest on invested capital, handling and storage costs and insurance is called :

A : High cost

B : Carrying cost - **(Correct Answer)**

C : Low cost

D : Setup cost

31. In inventory Management ordering the exact amount of the net requirements in each period is called as ___ .

A : Period order quantity

B : Least order quantity

C : Least total quantity

D : Lot for Lot quantity — **(Correct Answer)**

32. The period used for planning purposes in Materials Requirement Planning (MRP) is called ___ .

A : Time Loss

B : Time phasing

C : Time gain

D : Time bucket — **(Correct Answer)**

33. When was the first News-paper published from our country (India) ?

A : Jan. 29, 1780 - **(Correct Answer)**

B : Feb. 11, 1735

C : Jan. 22, 1881

D : Feb. 05, 1811

34. In publishing process, 'Content acquisition' is performed by whom ?

A : Author

B : Copy Writer

C : Copy Editor

D : Publishing House - **(Correct Answer)**

35. Find the age group (Children Publishing) for which books published are called "Novelty Books" ?

A : 0 to 5 Yrs. - **(Correct Answer)**

B : 5 to 7 Yrs.

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C : 7 to 9 Yrs.

D : 9 to 11 Yrs.

36. The technical means of controlling usage of digitally available books or journals is called ___ .

A : Digital Reference Management

B : Digital Records Management

C : Digital Receipt Management

D : Digital Rights Management - **(Correct Answer)**

37. Theoretically, as the film weight is doubled, so is the percentage absorption; the reflectance is halved and the density increases by :

A : 0.1 D

B : 0.2 D

C : 0.3 D - **(Correct Answer)**

D : 0.4 D

38. If excessively high film thicknesses are transferred to the image areas, the amount of dot gain arising through increased ink squash :

A : rises - **(Correct Answer)**

B : lowers down

C : remains as it is

D : shows inertness

39. Offset press condition in which non-image areas of plate accept ink is called :

A : Hickies

B : Scumming - **(Correct Answer)**

C : Set-off

D : Mottle

40. From density measurements, which equation is used to calculate dot area :

A : Charles Thomas equation

B : Dot trap equation

C : Murray - Davies equation - **(Correct Answer)**

D : Preflight equation

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