

PG TRB

SUBJECT : GEOGRAPHY

UNIT I - LAND FORMS:

- ❖ Land forms due to water action - wind action - wave action and glacial action
continental drift - plate tectonics - normal cycle of erosion - concept of davis penck.

UNIT II – CLIMATOLOGY:

- ❖ Heat budget of the earth and admosphere - Indian monsoon - cyclones and anti cyclones - climatic classification of koppen and thernthwaite.

UNIT II - POPULATION AND SETTLEMENT

- ❖ World distribution of population - over population , under population and optimum population- growth of population - theories of population - migration : Internal and international - Rural settlements - types of patterns - Urban settlements - Functional classification of towns and cities.

UNIT IV - ENVIRONMENTAL STUDIES

- ❖ Ecosystem concepts - human impact on physical environments - natural hazards
 - Air, Land , Water and Noise pollution - waste disposal and its effects on society Environmental planning and management .

UNIT V - GEOGRAPHY OF INDIA

- ❖ Division of india based on relief,climate soil and naturalvegatiton - Agricultural distribution - population distribution - Power production - Mineral distribution and a production - industrial regions - trade and transport - Urbanization.

UNIT VI - QUANTITATIVE TECHNIQUES IN GEOGRAPHY

- ❖ Source of data - Geographic methods of sampling ; point , line and area sampling - correlation and regression analysis - centrographic measures of mean and meadian centres and standard distance.

UNIT VII - REGIONAL ANALYSIS

- ❖ Formal and functional region - regional hierarchy - regionalism - classification of region - Techniques of regional classification - simple feature and multifeature regions . Macro and micro regions of India - Regions planning in tamilnadu.

UNIT VIII - GEOGRAPHY OF RESOURCES AND INDUSTRIES

- ❖ Meaning and nature of resources - Trends of resources - Development Agricultural resources - Nature and types - food resources - major cereals, oil seeds, beverage crops ,sugarcane and sugarbeet - Animal and marine products - Energy resources - coal ,mineral oil ,H.E.P and Atomic Power production development and trends - industries - Iron and steel ,ship building ,automobiles, Textiles - cotton ,jute ,rayon and woolen - Petroleum refining Petrochemical industries and fertiliser.

UNIT IX - THEMATIC CARTOGRAPHY

- ❖ Compilation and generalization of maps - Map design and layout - Mapping of climatic , Economic population and other social data - Map reproduction - Signification of Air photos and satellite imagery in map making choropleth maps.

UNIT X - GEOGRAPHY OF TAMILNADU

- ❖ Relief and Drainage, Climate, Vegetation - Floods and droughts - distribution of food crops and cash crops - animal Husbandry - Fisheries - Minerals - Industries - Power resources- Population and urban centres.

Professor Academy

Educational Psychology

Unit - 1

Pre-primary Education - Programme of Pre-primary Education - universalization of Primary Education - Equality of opportunity - Secondary and Higher Secondary Education - Need for uniform pattern - Non-formal and Adult Education - Functional Literacy Programme - Programmes for workers in industry - programme for dropouts - Role of Educational institutions in Non-formal Education - Open School / Open University, Quantity and Quality of Education - State and National leave - Unemployment and underemployment - Delinking employment from degrees - Skill development - Vocation Skill oriented education - Man power planning and education Brain drain - Special problems of rural and tribal people - illiteracy and poverty - Eradication of poverty through Education.

Unit - 2

National integration - International understanding - Value Education in action- Nation and health - sanitation - Safety and first aid - Women's education - Education for handicapped Education for gifted - Population Education - Need for protecting the environment - Environmental Education - Language policy - Medium of education - channel of international communication Management of Schools, private, aided, Government, Local authorities - Government Department of education, administration and academic supervision - Headmaster / Headmistress as an administrator and academic supervisor.

History and Culture of Tamil Nadu:

Unit - 3

Political - Spiritual - Religion - Literature - Language - Education - Natural Resources - Trade - Occupations - Historical places - Tourist centers - Arts - Games - Society.



Unit -4

The Learner, Learning process - Learning situation - Significance of Education Psychology to the teacher concept of growth and maturity - development characteristics and trends - Development tasks and education - Development of mental abilities - Attention, inattention and distraction - span of attention, sensation and perception - factors in perception - Errors - concept formation - Piaget's states of cognitive development - concept maps language. Imagination, thinking and reasoning - Psycholinguistics - Implications for the teacher.

Unit -5

Special characteristics of adolescents and their problems, attitudes, interest, group behavior, Discipline Leadership - Nature and importance of learning - individual differences in learning - Learning curves - Transfer of learning - Learning styles - Factors in learning - Types of learning - Trial and error - Conditioning - Classical and operant - Learning by insight - Imitation - Levels of learning - Remembering and forgetting - Learning Disabilities.

Unit - 6

Motivation - Maslow's hierarchy of needs - roles of rewards and punishments - Levels of aspiration - Achievement motivation - Goal as a motivational factor - Nature of intelligence - Theories of intelligence - Assessment of intelligence - IQ constancy - Distribution - uses of intelligence test - Creativity - Creativity and intelligence - Identification and promotion of creativity - Meaning of personality - Factors influencing personality - Assessment of personality - integrated personality - concept of mental health hygiene - conflict and frustration - Unrest - Adjustment - Defence mechanisms - Mental illness - Guidance and counselling.



Unit -7

Meaning of educational innovation - principles involved in innovation - Emergence of school -In cultural, social and religious setting - Innovations that emerged from educational experiments-Tagore:- Santi Niketan- Gandhiji:- Basic Education - A.S.Neill;- Progressive School -Sri Aurobindo :- Ashram Schools. Rousseau: Children's Education - Montessori - Sense Experience - Bertrand Russel- Education for Social Order - Froebel-Kindergarten- Dewey- Pragmatic life J. Krishnamoorthy-Freedom in learning situation. Influence of Psychological factors on innovation - principles underlying self-learning devices. Piaget- Experiment's and discovery learning - Child- centered learning. Effects of cultural, religious and social factors on innovation- Principles of equality - conformity to common educational goals.

Unit -8

Modernization of education - National Educational Policy (1986) - DPEP Special focus on Teacher Education (DTERT, DIETs, BRCs, CRCs) MLL based curriculum and syllabus - Joyful learning - Autonomy in institutional structures - Individual freedom- Library based learning: Self-paced instruction -pace setting schools - Mobile schools- De-Schooling and non-classroom learning - community schools - school complex Distance education and open learning- Education through mass communication - special education -Sainik school - Defence academy - Educational Technology - need for and use of Instructional technology - mass media for instructional purposes - Review of radio and TV educational programmes - educational computing.

Subject: General Knowledge

Marks - 10

Unit-I Indian History

History of India - Vedic period 1526 AD to 1947 - Free India - Modern India

Unit – II Indian Constitution

Origin of Indian Constitution - Salient and special features - Fundamental rights - Legislature - Judiciary Executive - Audit franchise - Human rights.

Unit – III History of Tamil Nadu

Ancient period - Sangam age - Chera, Chola, Pandya's - Economical, political, Social Conditions - Literature Architecture - Fine arts - Geography of Tamil Nadu - Natural boundaries - Resources - Rivers and places.

Unit-IV Personalities Books and authors - Discoveries

Unit-V Sports & Games Confined to India

Unit- VI Abbreviations

Unit – VII Every Day Science

Unit-VIII Current Affairs

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