

MAJOR COURSE
SEMESTER – VI
PAPER – VII (THEORETICAL)
REGIONAL GEOGRAPHY AND SPECIAL PAPER
Full Marks – 100

Group-A (Regional Geography)

Marks :50

Unit – 1 Geography of India (20 Marks)

- Physiography and Drainage
- Climate, Nature, Vegetation and Soil
- Minerals and Power Resources Iron Ore, Coal, Petroleum Non-Conventional energy bases.

Unit – 2: Geography of North-East India with special reference to Tripura [20 Marks]

- Physiography and Drainage
- Climate, Nature Vegetation and Soil
- Energy Resource and Tourism Industry

INTERNAL ASSESSMENT – 10 Marks

1. Bhattacharyya, N.N. (2005): North East India – A systematic Geography, Rajesh Publication, New Delhi
2. Bhowmik, I and Chakraborti, D..... (2011): Resources and Economy of Tripura, Eastern Book House Publishers (India), Guwahati.
3. Khullar, D.R. (2001): India A Comprehensive Geography, Kalyani Publishers, Kolkata.
4. Mamoria, C.B. (1975): Geography of India, Shiva Lal Agarwal and Company, Agra, India.
5. Sharma Cutinho (1997): Economic Geography of India, Ludhiana.

6. Taher, M and Ahmed, P. (2001): Geography of North-East India, Maru Manik Prakash Guwahati, India.

Group – B (Special Paper on FLUVIAL GEOMORPHOLOGY)

(Marks: 50)

Unit – 3: Stream Hydraulics

(20 Marks)

- Drainage Basin as a Geomorphic Unit
- Hydrological Cycle of Drainage Basin
- Factors affecting Run off and Run off Cycle

Unit – 4: Channel Characteristics (20 Marks)

- Channel Patterns: Straight Meandering and Braided.
- Factor of Settling Velocity of small particles and Erosion velocity
- Competence and Capacity of a Stream

INTERNAL ASSESSMENT – 10 Marks

References

1. Devi, H.I (2000): River Basin Morphology, Rajesh Publication, New Delhi
2. Leopold, L.B, Wolman, M.G and Miller, J.P (19...) Fluvial Processes in Geomorphology, S.Chand and Company Ltd. New Delhi
3. M..isawa, M (1968): Streams: Their dynamics and Morphology, McGraw Hill Book Co.
4. Mukhopadhyay, S. and Mukhopadhyay, M (1991) River Geography, IPP.
5. Sen, P. K (1993): Geomorphological analysis of Drainage Basins, The University of Burdwan, Barddhaman
6. Singh, S. (1998): Geomorphology, Prayag Pustak Bhawan, Allahaba
7. Selby, M.J (2005): Earth's Changing Surface, Oxford University Press, (Indian Edition)

Group – B (Special Paper on POPULATION GEOGRAPHY)

(Marks: 50)

Unit – 3 Population dynamics

(20 Marks)

- Factors influencing spatial distribution and density of Population
- Determinants and Measures of Fertility, Morbidity, Mortality and Migration
- Concept of Census data and Sample Survey, Concept of Over – Population, Under Population, Optimum Population and Ageing

Unit – 4 Population Regional Problems and Policies

(20 Marks)

- Population – Resource Regions after Zelinsky
- Population Problems of the Third world Poverty, Famine, Nutrition and Unemployment
- Fertility influencing Policies, Pro-natal and Anti-natal -Sweden and India.

INTERNAL ASSESSMENT – 10 Marks

References

1. Chandna, R.C (2000): Geography of Population: Concept, Determinants and Pattern Kalyani Publishers, New Delhi.
2. Clark, J.I (1993): Population Geography, Pergamon Press, Oxford
3. Government of India: National Human Development Report 2014 (Published annually)
4. Government of India: Census of India (2001 and 2002)
5. Mitra, A (1978): India's Population, Vol. I and II, Abhinav publisher, Nagpur.
6. UNESCO (2014): Human Development Report, Oxford University Press (Publish annually)
7. Zelinsky, W. (1966): A prologue to Population Geography, Prentice Hall.

MAJOR COURSE
SEMESTER – VI
PAPER – VIII (PRACTICAL)
Full Marks – 100

GROUP – A (STATISTICS)
(Marks : 50)

- ❖ Statistical Techniques (35 Marks)
 - Tabulation and Classification of Statistical Data
 - Diagrammatic representation of Frequency Distribution
 - Histogram
 - Frequency Polygon
 - Normal and Skewed distribution
 - Ogive (Cumulative frequency Polygon)
 - Measures of central tendency by means of Mean, Median and Mode Calculation and Diagrammatic Representation
 - Measures of partition Values Quartiles Deciles and Percentiles calculations and Diagrammatic Representation
 - Measures of Dispersion or Variation
 - Mean Deviation
 - Quartile Deviation
 - Standard Deviation
 - Coefficient of Variation
- Laboratory Notebook and Viva- Voce (5 Marks)

INTERNAL ASSESSMENT – 10 Marks

References

1. Alvi, Z (1995): Statistical Geography – Methods and Application, Rawat Publication, Jaipur
2. Das, N.G (2008): Statistical Method, McGraw Hills Education (India) Pvt Ltd.
3. Goon, A.M Gupta, M.K and Dasgupta, B. (1992) Fundamental of Statistic, Vol 1, The World Press Pvt Ltd, Kolkata

4. Goon, a.M Gupta, M.k and Dasgupta, B. (1992) Basic Statistics, Vol 1, The World Press Pvt., Ltd Kolkata

GROUP – B (Special Paper Practical on FLUVIAL GEOMORPHOLOGY)

Marks-50

➤ **Hydrological Analysis** (20 Marks)

- Preparation and Analysis of Hydrography and Rating Curve.
- Stream Order after Horton, Strah...er, Shreve and Scheidegger
- Study of Drainage Patterns from different SOI topographical maps

➤ **Analysis of Drainage basin from a SOI topographical map applying Quantitative**

Methods (15 Marks)

- Relation between Stream Order (u... Stream Number (Nu) and Stream Length (Lu)
- Bifurcation Ratio (Rb)
- Stream Length Ratio (RL)
- Drainage Density (Dd)
- Stream Gradient
- Form Factor (F)
- Circularity Ratio (Rc)
- Elongation ratio (Re)

➤ **Laboratory Notebook and Viva Voce** (5 Marks)

INTERNAL ASSESSMENT – 10 Marks

References

1. Devi, H.I (2000): River Basin Morphology, Rajesh Publication, New Delhi
2. Singh, C.P (2002): Allied Geomorphology, B.R Publishing Corporation (India) Ltd, Delhi.
3. Thornbury, W.D (1984): Principal of Geomorphology, Wiley Eastern Limited, New Delhi

Group – B (Special Paper Practical on POPULATION GEOGRAPHY)

(Marks – 50)

- Measures of Temporal and Spatial changes (20 Marks)
 - Population growth rate: Absolute and Compound
 - Population Projection by Arithmetic Method
 - Measures of Fertility and mortality: Crude Birth Rate (CBR), Gross Reproduction Rate (GRR), Total Fertility Rate (TFR), Crude Death Rate (CDR), Infant and Child Mortality Rate (IMR and CMR) and Maternal Mortality Rate (MMR).

- Mapping and Interpretation of Population data (15 Marks)
 - Population Density: Distribution of Rural and Urban Population
 - Residual Mapping

- Laboratory Notebook and Viva-Voice (5 Marks)

INTERNAL ASSESSMENT – 10 Marks

References

1. Bandhopadhyaya, T.K and Sil, A.K (2004): Byaboharik Bhugol Parichaye (Bengali) Chhaya Prakasoni, Kolkata
2. SnatakByaboharikBhugol, Chhaya Prakasoni (Bengali) Kolkata
3. Monkhouse, (1971) Maps and Diagrams Methuen, London
4. Mitra, K. Ghosh, K. and Das, M (2006): B.A Honours Practical Geography. Kalyani Publishers, Kolkata
5. Mitra, K. Ghosh, K. and Das, M (2006): B.A General Practical Geography, Kalyani Publisher, Kolkata
6. Sarkar, A (1998) Practical Geography – A Systematic Approach Orient Longman Ltd.
7. Singh, R.L and Singh, RPB (2002): Elements of Practical Geography, Kalyani Publishers Kolkata
8. Saikia, R and T....., G (2015):
9. Sarkar, A (2013), Quantitative Geography, Techniques and Presentations...