

SEMESTER - VI

B.A/B.SC SEMISTER-IV SUBJECT: GEOGRAPHY PAPER - IV : GEOGRAPHY OF INDIA

Objectives: to learn 1)topography, soils, drainage system 2) Population density, human settlements, urbanization 3) Agriculture, energy and minerals resources 4) Industrial development 5)Trade and transport system in India.

Unit – I

India: Location, relief structure and drainage systems. Climate, Soils, natural vegetation.

Unit – II

Population: distribution, density, growth and composition. Migration, human settlement types and urbanization.

Unit – III

Land resources, irrigation, Green revolution and problems of Indian agriculture. Energy and mineral resources: coal, petroleum, hydroelectricity and nuclear energy, iron ore, manganese and mica.

Unit – IV

Industries- iron and steel, cotton textile, sugar and petrochemical industries; and industrial regions of India.

Unit – V

Modes of transport and communication, international trade changing pattern of export and import.

Learning outcome

After completion of the Paper, the student will learn about different physical, anthropogenic features, mineral wealth and features agriculture, industries and trade and transport systems in India

Suggested Readings:

1. Deshpande, C D: India – A Regional Interpretation, Northern Book Depot, New Delhi, 1992.
2. Singh, Gopal: Geography of India, Atma Ram and Sons, 2006.
3. Shafi, M: Geography of South Asia, McMillan and company, Calcutta, 2000.
4. Singh, R L (ed): India: A Regional Geography, National Geographical Society, India, Varanasi, 1971.
5. Spate, D H K and ATA Learmonth: Indian and Pakistan – Land, People and Economy, Methnen and Company, London, 1967.

Practical: Cartographic Techniques

Objectives

To learn about the concept, techniques and applications of Cartography.

Content

Map – Definition, Scale of map, applications.

Map Projections – classification, polar, zenithal, stereographic, Bonne's and Mercator's projections

Topographic Profiles

Toposheets – Interpretation, slope analysis

Interpretation of Weather maps (one summer, winter and monsoon seasons).

Learning Outcome

After completion of the paper, the student will learn about the importance of scale of a map, importance of map projections, preparation of map, reading and interpretation of a Toposheet and interpretation of Weather maps.

Suggested Readings

1. Anson, R., and Ormelling F. J., (1994): *International Cartographic Association: Basic Cartographic*, Vol. Pregmen Press.
2. Singh, Gopal., (1998): *Map Work and Practical Geography (4th Edition)*, Vikas Publishing House, Ahmedabad.
3. Gupta, K.K. and Tyagi V.C., (1992): *Working with Map*, Survey of India, DST, New Delhi.
4. Kraak, M.J., (2010): *Cartography: Visualization of Geospatial Data (3rd edition)*, Pearson Education Ltd., London.
5. Misra, R.P., (2014): *Fundamentals of Cartography (Second Revised and Enlarged Edition)*, Concept Publishing, New Delhi.
6. Monkhouse, F. J. and Wilkinson, H. R., (1973): *Maps and Diagrams*, Methuen, London.
7. Rhind, D. W. and Taylor D. R. F., (eds.) (1989): *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
8. Robinson, A. H., (2009): *Elements of Cartography (6th Edition)*, John Wiley and Sons, New York.
9. Sarkar, A., (2015): *Practical geography: A systematic approach*, Orient Black Swan Private Ltd., New Delhi
10. Sharma, J. P., (2010): *Pravogic Bhugol (Hindi)*, Rastogi Publishers, Meerut.