

## SYLLABUS

### Paper I: Geography of Asia

#### Section A

Asia in the context of the world, geological structure, relief, drainage system, climate and climatic regions based on Koppen and Thronthwaite. Natural vegetation and soil regions, population: distribution, density and growth; trends of urbanization.

#### Section B

Agriculture: main characteristics and problems of Asian agricultural; distribution and production of major crops: rice, wheat, cotton, tea, coffee, sugarcane, rubber; problems and solutions of Asian agriculture, fisheries: distribution and production; mineral resources: distribution, deposits and production of iron ore, copper, mica, aluminium; power resources: distribution, deposits and production of coal, petroleum and natural gas. Industries: distribution and production iron and steel industry, cotton textile and paper industry; transport network and international trade in Asia.

#### Section C

Regional geography of Japan, China, Pakistan, Turkey and Indonesia in terms of physiography, climate, drainage pattern, soils, vegetation, minerals, agriculture, industry, human resources, trade, commerce and major geographical regions.

#### Recommended Readings:

- Hussain, M. 2004: World Geography. Rawat Publication, Jaipur.  
Johnson, D.L. et al 2012: World Regional Geography: A Development Approach. PHI Learning Pvt. Ltd., New Delhi.  
ममोरिया एवं अग्रवाल 2012: एशिया का भूगोल। साहित्य भवन, आगरा।  
राव, बी.पी. एवं सतपथी, डी.पी. 2002: एशिया की भौगोलिक समीक्षा। वसुन्धरा प्रकाशन, गोरखपुर।  
सतपथी, डी.पी. 1995: चीन की भौगोलिक समीक्षा। वसुन्धरा प्रकाशन, गोरखपुर।  
Shafi, M. 2000: Agricultural Geography of Asia. Macmillan, Delhi.  
सक्सेना, एच.एम. 2010-11: विश्व का प्रादेशिक भूगोल। रस्तोगी पब्लिकेशन्स, मेरठ।  
Tikkha, R.N. 1997: World Regional Geography. New Academic Publishing Company, Jalandhar.  
Trewarth, G.T. 1961: Japan: A Physical, Cultural and Regional Geography. Mathu and Company, London.

### Paper II: Geography of India

#### Section A

India in the context of South and Southeast Asia, geological structure, physiographic divisions, climate: seasons. mechanism of Indian monsoon, major climatic regions.

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Vegetation, major soils and regions; drainage system, water resources and irrigation projects; forests, mineral and power resources: their utilization policy and conservation strategies.

### Section B

Agriculture: typology, major crops, changing pattern of crops, agricultural growth during plan period and green revolution, livestock resources and their development, industrial growth and development; industrial localization with reference to iron and steel, cotton textile, cement and chemical industries, industrial regions; population growth, distribution, problems, policy implication, trends of urbanization and human resource development.

### Section C

Regional disparities in economic development, planning and economic regions of India, multilevel planning, problems and prospects of linking of rivers, environmental issues in India, transport development: rail, road, air and waterways, foreign trade: challenges and prospects.

### Recommended Readings:

- Gautam, Alka, 2010: Geography of India. Rastogi Publications, Meerut.  
Gopal Krishnan, R. 2001: Geography of India, Jawaher Publishers & Distributions, New Delhi, 2<sup>nd</sup> Edition  
गुर्जर, आर.के. एवं जाट, बी.सी. 2013: भारत का भूगोल, पंचशील प्रकाशन, जयपुर।  
Khullar, D.R. 2006. India a comprehensive Geography; Kalyani Publishers, New Delhi  
मामोरिया, सी. 1999: आधुनिक भारत का वृहत्त भूगोल। साहित्य भवन पब्लिकेशन्स, आगरा।  
Sdasyuk, G. and Sengupta, 1968: Economic Regionalisation of India, Census of India Publication, New Delhi.  
Singh, G. 1998: A Geography of India, Atma Ram & Sons, Delhi, Sixth Edition.  
Singh, R.L. (ed.) 1971: India: A Regional Geography. NGSI, Varanasi.  
Spate, O.H.K. and Learmonth, A.T.A. 1967: India and Pakistan, Land, People and Economy, Methuen and Co., London.  
Tirtha, R 2000: Geography of India, Rawat Publications, Jaipur 2<sup>nd</sup> Edition (India)  
तिवार, आर.सी. 2012: भारत का भूगोल। प्रयाग पुस्तक भवन, इलाहाबाद।

### Practicals

#### Scheme of Examination

Min. Pass Marks: 18

Written test  
Field survey and viva voce  
Record and viva voce

Bifurcation of Marks

24

10+04

08+04

Max. Marks: 50

Time

3 hrs.

2 1/2 hrs.

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- N.B. 1. There shall be 6 questions in written paper selecting at least two questions from each section. Candidates are required to attempt 3 questions selecting 1 question from each section. All question carry equal marks.

## SYLLABUS

### Section A

Definition, classification, uses and characteristic of map projection: (graphical constructions).

Conical projections:

1. with the one standard parallel
2. with two standard parallels
3. Bonne's
4. Polyconic

Cylindrical projections:

1. Equidistant
2. Equal Area
3. Mercator's, Universal Transverse Mercator (UTM)
4. Gall's Stereographic

### Section B

Zenithal Projections: (Only Polar Case)

1. Equidistant
2. Equal Area
3. Gnomonic
4. Stereographic
5. Orthographic

Three dimensional diagrams: sphere, block pile, cube.

### Section C

Plane table surveying: Equipments, procedure, traversing – open and closed traverse, methods- radial and intersection, concept of resectioning.  
Height calculation using Indian pattern clinometer.

Recommended Readings:

- चौहान, पी.आर. 2005: प्रायोगिक भूगोल। वसुन्धरा प्रकाशन, गोरखपुर।
- Raisz, E. 1962: General Cartography. John Wiley and Sons, New York. 5<sup>th</sup> edition.
- Rampal, K.K. 1993: Mapping and Conflation: Methods and Techniques Concept Publishing Company, New Delhi (Reprint 2009)
- Robinson, A.H. et al. 2004: Elements of Cartography. John Wiley & Sons, Inc., New York (Sixth Edition)
- Singh, L.R. 2006: Practical Geography. Prayag Pustak Publisher, Allahabad U.P.
- Singh, R.L. and Singh, R.P.B 1991: Elements of Practical Geography. Kalyani Publisher, New Delhi (Reprint 2002)
- शर्मा, जे.पी. 2010-11: प्रयोगात्मक भूगोल की रूपरेखा। रस्तोगी पब्लिकेशन, मेरठ।

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