

# RajRishi Bhartrihahi Matsya University, Alwar

## Syllabus – Geography

MA / M.Sc. FINAL

PAPER -V : ADVANCED GEOGRAPHY OF INDIA

3hr. duration

Max. Marks :100

Note :-

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20 to 50 words), at least three questions from each unit, each question of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50 to 100 words).
4. Part-C-(60 marks) contains six questions, two from each unit. Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

Course Contents :

### Unit – I

India in the context of south-east and south Asia; a land of diversities; unity within diversities. Physiographic regions, geological structure, drainage systems, soils, vegetation, origin and mechanism of Indian monsoon, climatic classifications, identification of drought and flood prone areas. Inter-Linking of Rivers.

Population - distribution, density, growth, population problems and policies, tribal areas and their problems, Gender discrimination and empowerment of women.

### Unit – II

Resources – conservation and utilization of land, mineral, water, biotic and marine resources, Agriculture land use pattern, Agro-climatic Zones, green revolution and its impact on Indian Agriculture. Agriculture infrastructure – Irrigation and multipurpose projects, fertilizers and seeds. Dry zone Agriculture. Types of Agriculture, Geographical conditions, distribution and production of following crops - Wheat, Rice, Sugarcane, Cotton, Tea, Coffee. Green revolution.

### Unit – III

Mineral & Energy resources- distribution of metallic( Iron ore, Copper, Bauxite, Manganese) Non- Metallic (Mica & Salt) and Energy Resources – Conventional – ( Coal, Petroleum, Natural Gas and Hydroelectricity) & Non-Conventional (Solar, Wind, Biogas), conservation of

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resources. Industry- factors of localization, classification, detailed study of the following – iron & steel, cement, fertilizer, paper and pulp and sugar industries, study of the network of roadways, Swarnim Chaturbhuj Bharatmala Yojna, Railways - DFCCIL, Airways and Waterways, Sagarmala Pariyojna. Regional disparities of development in India. Basis of regional planning divisions of India – macro and meso regions of India and their comparative analysis, Regional planning of rural and urban regions.

Books Recommended:

1. Govt. of India: Five Year Plans of India.
2. Sharma & Coutinho: Economic and Commercial Geography of India, Vikas, Delhi. 3. Singh, R.L.: India: A Regional Geography, N.G.S.I. Varanasi, 1971
4. Galyna & Sen. Gupta: Economic Regions and Regionalization in India, 1968 5. Chaudhary, M.R.: Indian Industries Development and Location
6. Spate, O.H.K. India and Pakistan, Methuen & Co., London 7. Krishna. M.S.: Geology of India and Burma, Law Journal Office, Madras.
8. Kumar, L.S.S. & Agriculture in India, Vol. 1 & 11, Asia Publishing Others House, Bombay.
9. Indian Year Book, Latest Edition : Publication Division Delhi. Irrigation Atlas of India. Irrigation Atlas of India.
10. Chatteji, S.B.: Climatology of India, Calcutta University, Calcutta 11. Sharma, T.R.: Location of Industries of India, Hindi Kitab, Bombay.
12. Gazetteers of India: Publication Division, New Delhi.

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## PAPER-VI : URBAN GEOGRAPHY

3hr. duration

Max. Marks :100

### Note :-

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2. Part-A (20 marks) is compulsory and contains 10 questions (20 to 50 words), at least three questions from each unit, each question is of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50 to 100 words).
4. Part-C-(60 marks) contains six questions, two from each unit Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

### Course Contents :

#### Unit – I

Nature and scope of Urban Geography, Origin and growth of towns during ancient, Medieval and Modern Period. Factors affecting the growth, site and situation of towns, Chief characteristics of modern town - Conurbation and Megalopolis. Trends of Urbanization in India since 1901. Spatial pattern and distribution of urban centers, Central Place Theory, Rank-size relationship.

#### Unit II

Functional classification of cities, Urban economic base, the basis and non-basis concept, Urban hierarchy based on functions, Urban Morphology - Centrifugal and centripetal forces, Theories of urban growth and structure, Morphology of Indian cities and its comparison with western cities, Urban Land use-city core, commercial, residential and industrial areas.

#### Unit III

Contemporary urban issues and problems, Urban policies, Urban Heat Island. City - Region Relationship - Umland, Rural-Urban fringe, suburbs, satellite town, Green Belt, Garden city, Principles of town planning, Smart city, Principles of Regional Planning, Master Plan preparation, implementation obstacles. Detail Study of Alwar Master Plan. Concept of Smart City its implementation & Challenges with reference to India.

#### Books Recommended:

1. Taylor, G.: Urban Geography Mathuen & Co., London.

2. Geddes: study in city - Development.

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3. Singh, R.L.: Banaras - A study in Urban Geography, Students Friends, Allahabad.
4. A.E. Smailes: The Geography of Towns, Hutchinson, University Library, London.
5. Dickinson, R.E.: City Region and Regionalism, Routledge and Kegan Paul London. 6. Harold, M. Mayer: Readings in Urban Geography, Central Book Depot, Allahabad.
7. V.L.S. PrakashRao: Towns of Mysore State, Statistical Publishing House, Calcutta.
8. Shah ManzoorAlam: Hyderabad and Secunderabad Twin City - Studies in Urban Geography, Allied Publishers, Delhi.
9. Singh, R.L.: Bangalore and Urban Survey, National Geographical Society of India, B.H.U., Varanasi.
10. Sovani, N.V.: Urbanization and India, Asia Publishing House, Bombay.
11. Hudson, E.S.: Geography of Settlement. 12. Johnson, R.H.: Urban Geography.
13. Ambedkar: Town and Country Planning.
14. जोशी, रतन : नगरीय भूगोल, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।
15. ओम प्रकाश सिंह : नगरीय भूगोल।
16. बंसल : नगरीय भूगोल।

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M.A. Final

**PAPER-VII (a) : POPULATION GEOGRAPHY**

3hr, duration

Max. Marks 100

Note:

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part-A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20 to 50 words), at least three questions from each unit, each question is of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50 to 100 words).
4. Part-C-(60 marks) contains six questions, two from each unit. Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

Course Contents:

**Unit- I**

Population geography: definition, nature and scope and interdisciplinary study, theories of population growth pre-Malthusian views, Malthus' theory, Marxist theory, Optimum population theory, demographic transition model, world population distribution & Density and determinants.

**Unit - II**

Migration: history, theories & Laws of Migration, trends and patterns of international and internal migration, Population dynamics: fertility and mortality - measurement, determinants and distribution, world population composition and characteristics, world population- urbanization, trends, pattern and challenges.

**Unit - III**

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India - Population characteristics and relationship with development, Population control movement and policies: urbanization and population explosion; post-independence development - Reproductive and child health programme, contemporary issues - ageing of population; declining sex ratio, HIV/aids.

Books Recommended:

1. Chandna, R.C.: Population Geography. Kalyani Publishers, Delhi. 2. Garnier, J.B.: Geography of Population. Longman, U.K.
3. Hassan, M.I.: Population Geography. Rawat Publication, Jaipur.
4. Newbold, K.B.: Population Geography Tools and issues, Rowman & Littlefield Publications, London.
5. Woods, R.: Theoretical Population Geography. Longman, U.K.

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**PAPER-VII : Anyone of the Following  
PAPER – VII (b) : BIO-GEOGRAPHY**

3hr. duration

Max. Marks :100

**Note :-**

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20 to 50 words), at least three questions from each unit, each question is of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50 to 100 words).
4. Part-C-(60 marks) contains six questions, two from each unit Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

**Course Contents :**

**Unit – I**

Meaning and scope of Bio-Geography, History of Zoo-Geography, Plant Geography. Ecology and Habitat: the habitat factors, Climatic factors, plant response to environment, Barriers to distribution and means of dispersal of plants. Types of Plant Communities in general. Factors controlling forest distribution. Characteristics of equatorial and temperate forests and grasslands and their distribution.  
Climatic change and its effect on the plant cover, conditions of existence for animals.

**Unit - II**

Barriers to distribution and means of dispersal of animals. Types of Isolation, effects of geographic Isolation. Distribution of animals. The Zoo-Geographical regions. Phyto Geographical Regions. Biodiversity- Types, value, levels, hotspots, threats and conservation. Aquatic environment and life, marine and fresh water fauna. Vegetation and floral regions of India and their Economic importance. Pollution & its effect on wild life and vegetation.

**Unit - III**

Brief Study of following National and International Programs and Polices: RAMSAR Convention on Wetlands, G-20, Kyoto Protocol, Convention on biological diversity (CBD), Man and Biosphere (MAB) Programme of UNESCO, Stockholm Convention (1972), Agenda 21, Vienna Convention for the Protection of the Ozone Layer(1985), Montreal Protocol (1987), Convention

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on International Trade in Endangered Species (CITES, 1973), Environmental Impact Assessment (EIA).

Detailed Study of the following: Wildlife (Protection) Act 1972, Project Tiger (1973), Environment Protection Act (1986), Biological Diversity Act (2002), National Environment Policy (2006), Rajasthan State Environment Policy (2010).

**Books Recommended:**

1. Newbegin: Plant and Animal Geography.
2. Cline: Foundation of Plant Geography.
3. G.Ponald: The Geography of Flowering Plants.
4. Darlington: Zoo-Geography.
5. Schimper : Plant Geography.
6. Hora, S.L. : Fundamental Conception of Zoo-Geography. N.G.S.I. Banaras.
7. Hora, S.L. :Terrestrial Fishes and the Significance of their Distribution in Geographical Studies, N.G.S.J.,Banaras.
8. Mathur, H.S.: Bio-Geography.
9. जोशी, रतन : जैवभूगोल एवं जैवविविधता, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर।

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## PAPER-VIII (a) : POLITICAL GEOGRAPHY

3hr. duration

Max. Marks :100

**Note :-**

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
2. Part-A (20 marks) is compulsory and contains 10 questions (20 to 50 words), at least three questions from each unit, each question is of 2 marks.
3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50 to 100 words).
4. Part-C-(60 marks) contains six questions, two from each unit. Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

**Course Contents :**

### Unit – I

Definition, nature, scope, subject matter and recent development in political geography; approach, to study; major schools of thought. Political Geography and Geopolitics, Changing nature of international and national terrorism. Geographic Elements and the State : Physical Elements; Human elements; Economic elements.

### Unit – II

Themes in Political Geography : State, Nation, Nation-state and Nation Building, Frontiers and boundaries, Colonialism, Neocolonialism, Federalism and other forms of governance. The changing patterns of World Powers. Perspectives on core-periphery concept, Conflicts and cooperation.

Geopolitical significance of Indian ocean : Political geography of SAARC Region.

### Unit – III

Political geography of contemporary India with special reference to: The changing political map of India; Unity-diversity; centripetal and centrifugal forces; stability & instability; Interstate issues ( water dispute & riverine claims) and conflict resolutions, insurgency in Border States; Emergence of New States; Federal India : Unity in Diversity.  
Election Geography : Nature, approaches, election in national perspective, voting behavior and voting system in India. World politics and international terrorism.

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### Suggested Readings:

1. Alexander, L.M. : World Political Patterns, John Murray and Co., London.
2. Boggs, S.W. : International Boundaries, Columbia University Press, New York.
3. East, W.G. and Moodle A.E. : The Chanign World, George G. Harrap and Co., London.
4. East, W.G. and Spate, O.H.K. : The Changing Map of Asia, Methuen and Co., London.
5. Moodie, A.E. : Geography behind Politics, Hutchinson's University Library, Londoan.
6. Pearch, C.E., et.al. : World Political Geography, Thomas, Y.Crowel Co., New York.
7. Valkenburg, S.Y. & Suz. C.L. : Elements of Poltical Geography, Second Edition, Eastern Economy Edition Prentice Hall & Co.Ltd, New York.
8. S.B. Cohen : Geography and Politics and Geography Relationship, Prentice Hall, New York.
9. Blij, D.Jeo : Systematic Political Geography, John Willey & Sons, New York.
10. Bergiman. Edward E. : Modem Political geography, w.M.C. brown Company Publishers.
11. Dikshit, R.D. : Political Geography – A Contemporary Perspective, Tata McGraw Hill Publishing Co.Ltd., New Delhi.
12. Sukhwal, B.L. : India – A Political Geography, Allied Publishers, New Delhi.
13. भट्टाचार्य एवं आच्छा : राजनैतिक भूगोल, राजस्थान हिन्दी ग्रथ अकादमी।
14. सक्सेना, हरि मोहन : राजनैतिक भूगोल, रस्तोगी एण्ड कम्पनी, मेरठ।

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## PAPER-VIII (b) : INDUSTRIAL GEOGRAPHY

3hr. duration

Max. Marks :100

Note :-

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part –A, Part-B and Part-C
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3. Part-B (20 marks) is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question is of 4 marks (50 to 100 words).
4. Part-C-(60 marks) contains six questions, two from each unit Candidate is required to attempt three questions one from each unit. Each question is of 20 marks (400 words)

Course Contents :

### Unit – I

Nature, scope and recent developments, elements and factors of localization of manufacturing industries : centralization and decentralization of industrial enterprises; horizontal, vertical and diagonal linkages of modern industries. Theories and models of industrial location : Weber, Losch, Isard and Hoover. Modern refinements to least-cost-theory; critical review and application of industrial location theories.

### Unit – II

Distribution and spatial pattern of manufacturing industries – Iron and Steel, Aluminum, Copper, energy goods and automobiles; textiles, chemicals, petro-chemicals, Ship-building, Pulp and Paper, hardware and software industries. Methods of delineating manufacturing regions, major manufacturing regions of the world.

Methods of measuring the spatial distribution of manufacturing industries; location quotient, coefficient of geographic association, index of concentration, case studies on application of these methods.

### Unit – III

Industrial regions in India: Hooghly side industrial regions, Damodar valley industrial regions, DMIC (Delhi-Mumbai industrial corridor). industrial policies of India: liberalization, privatization and globalization (special reference of india); special economic zones (SEZs).

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Environmental degradation caused by manufacturing industries, industrial hazards and occupational health. Impact of manufacturing industries on economic development; Role of globalization on manufacturing sector.

Shifting of industries and its impact on the urban fringe; changing industrial policy – need for integrated industrial development.

### Recommended Readings

Lloyd and Dicken: Location in Space: A theoretical Approach to Economic Geography.  
MC Cart and Lindberg Hodder and Lee. Economic Geography: A Preface to Economic Geography

Smith DE Cox K.P. Man: Industrial Location. A Economic, Geographical Analysis

Location and Behavior-An Introduction to Human Geography

Riley, R.C. 1973. Industrial Geography, Chalto and windus,

Alexander, J.W Economic Geography (Prentice Hall, New York).

Jat, B.C. Arthik Bhugol, 2013: Panchsheel Prakashan, Jaipur.

Bengston, N.A.: Fundamentals of Economic Geography (Prentice Hall, New York). Besoh, HA  
Geography of world Economy(D. Van Nostrand).

Britton, John. N.H: Regional Analysis and Economic Geography (G. Bell and Sons, London).

Estall, R.C. and Buchanan, R.O.: Industrial Activity and Economic Geography (Hutchinson and Co., London).

Ghose, B.C.: Industrial London.

Hoover, E.M.: The Location of Economic Activity (McGraw Hill Books Co: New York). Wheeler,  
J.O. and Muller, O.P. 1995: Economic Geography. John Wiley, New York.

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**Dissertation on Geographical Problem (In lieu of Paper VII & VIII)**

N.B. : The candidates offering this paper will be required to submit dissertation at least two weeks before the commencement of the theory examination. It will be examined by a board of two examiners. Five copies of dissertation must be submitted to the University, out of which one copy will be returned to the Department/College and one to the Supervisor. The dissertation should exclusively be based on field work and statistical analysis, as far as possible and be prepared under the guidance of a postgraduate teacher of five years standing. The faculty members will be able to supervise maximum two candidates for dissertation.

The volume of the dissertation should be about 110-115 pages.

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