

M. A. Geography (Semester - IV)
Code- GEO-M 401 A Elective Course - 01)
Urban Geography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Four short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

- Unit I** Definition and Scope of urban geography, Development of urban geography in India
Urban ecology and urban System
Basis of urban functions and functional classification of towns
- Unit II** Rank-Size Rule and Primate City
Urban hierarchy
Million Cities and Mega Cities
Concept of Megalopolis and Metropolitan regions
- Unit III** Concept of urban morphology
theories of urban landuse - Burgess Hoyt, Harris and Ullman
Concept and characteristics of CBD
Conurbation, Urban Agglomeration in context of India
- Unit IV** Trend of Urbanization in India and the World
Concept of City region
Unland and its delimitation
Rural urban fringe
- Unit V** Urban problems with reference to slums
Urban poverty
Urban planning policies in India
Smart city concept

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Selected Readings :

1. Carter, H. (1972) *The Study of Urban Geography*, Arnold Heinemann
2. Geddes, P. (1968) *Cities in Evolution*, Benn Publisher.
3. Hall, P. (1992) *Urban & Regional Planning*, Routledge, London.
4. Johnson J. (1973) *Urban Geography : An introduction Analysis, Germ Area*
5. Mayhew & Kohn (1959) *Readings in Urban Geography, Chicago Area.*
6. Scott, J. A. (2001) *(Global city Region, Oxford University area, U. K.*
7. Sinha, M. M. P. & Seema Bala : *Nagariya Bhoogol (Hindi).*
8. Bansal : *Nagariya Bhoogol (Hindi).*
9. Alam, S. M. *Hyderabad secundeabad Twin Cities*, Asia Publishing House, Bombay
10. Berry, B. J. L. and Horton, F. F., *Geographic perspectives on Urban Systems*, Prentice Hall, Englewood Cliff, New Jersey, 1970.
11. Beaujeu Garniewr, J. Chabat, G *Urban Geography London, 1969.*
12. Dickson, R. E. 1964, *City and Region*, Routledge, London.
13. Gibbs, I. P. *Urban Research Methods*, New Jersey, '1961.

Students are advised to read the above mentioned books and articles carefully and to refer to them as and when required.

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- I. Prasad 20/11/19*
- M. M. P. Sinha 22/11/19*
- S. M. Alam 22/11/19*
- Prasad 22/11/19*

M. A. Geography (Semester - IV)
Code- GEO-M 401 B (Elective Course - 01)

Political Geography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Two objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) $10 \times 2 = 20$ marks

Part - B

Four short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) $4 \times 5 = 20$ marks

Part - C

Three long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. $3 \times 10 = 30$ marks

- Unit I Meaning and scope of Political Geography
Approaches to Political Geography : Functional and Unified Field Theory Approaches
Geopolitics
- Unit II Geopolitical (World Order : Origin and Cessation of cold war
Global strategies, Views of H. L. Meckinder and N G. Spykman
Geopolitics of Asia-Pacific
- Unit III Concept of Nation and State and its elements
Land-Locked States and its problems
Frontiers and Boundaries - Types of boundaries
Maritime Boundaries - Growing areas of tension
- Unit IV Changing Political map of India : State re-organization
Geographical Bases of Indian Federalism
River water Disputes - International and National; Causes and effects
- Unit V Sino-Indian Border Dispute
Kashmir Problem
Geopolitics of Indian Ocean : Sino Indian Rivalry
Regionalism in India
SAARC - its genesis and importance for India

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Selected Readings :

1. John R. Stuart (1982) - An Introduction to Political Geography
2. Richard Muir (1995) - Modern Political Geography
3. Herman K. Edward (1975) - Modern Political Geography
4. Lucile Carlson (1971) - Geography and World Politic
5. S. B. Cohen (1968) - Geography and Politics in a Divided world.
6. N. J. G. Pounds (1972) - Political Geography
7. L. M. - Alexander (1963) - World Political Systems
8. P. J. Taylor & c. Flint : (2004 India Boy - Political Geography.
9. R. D. Dikshit (1982) - Political Geography.
10. S. Adhikari (1997) - Political Geography.
11. B. L. Sakhwal (1985) - Modern Political Geography of India.
12. S. Adhikari (2008) - Political Geography of India : A contemporary Perspective
13. O. Parkar (1998) - Geopolitics : Past, Present and Future.
14. S. K. Dikshit (2006) - Political Geography and Geo politics.
15. Hari Mohan Saxena (2009) - Political Geography.

Unit I: Introduction to Political Geography

Unit II: Historical Development of Political Geography

Unit III: Population Distribution, Growth and Administration

Unit IV: Population Growth, Migration and Demographic Transition

Unit V: Population Dynamics: Fertility, Mortality, Migration, Sex-ratio and ageing

Unit VI: Population Regions: Geography of population regions, population movement

Unit VII: Growth and Distribution of population in India

Unit VIII: Demographic Transition in India

Unit IX: Impact of urbanization

Unit X: Urban problems

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M. A. Geography (Semester - IV)
Code- GEO-M 401 C (Core Course - 01)

Population Geography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

The objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

- Unit I** Nature and Scope of Population Geography
Historical development of Population Geography, Relationship with Demography
Sources of Population Data : History of Census of India
- Unit II** Population distribution, growth and its determinants :
Theories of Population Growth Malthus and Demographic Transition : Concept of optimum population
- Unit III** Population Dynamics : Fertility-measurement : Mortality measurement, determinants and distribution, Migration : Trends and pattern of migration in India
- Unit IV** Population Regions : Typology of population regions, Ackerman scheme of population resource region
Human security - economic, food and health
- Unit V** Growth and distribution of population in India
Population composition of India
Internal migration in India
Trends of urbanization
Urban problems

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Selected Readings :

1. Chandana, R. C. - A Study in Population Geography.
2. Ghosh, B. N. - Population Geography.
3. Hirsai - Jansankhya Bhoogol
4. Bhende and Kanthar - Population Studies
5. Singh, R. L. - Practical Geography
6. Sharma, J. P. Prayogic Bhoogol Ki Rooprekha (Hindi)
7. Bhende, A. A. & Kanitkar, (2014), Principles of Population Studies, Himalayan Pub. Mumbai.
8. Bogue, D. J. Principles of Demography, New York, 1969.
9. Chandna, R. C. Geography of Population : Concepts Determinants and Pattern, Kalyan Pub. Ludhiana, 2014.
10. Clarke, J. I. Population Geography, Oxford-1981.
11. Hassan M. L. Population Geography, Rawat Pub. Jaipur, 2008.
12. Jhingran M. L. Bhatt B. K. and Desai, J. N. Demography, Vrid Pub. Delhi, 2006.
13. Khullar D. R. India : A comparative Geography, Kalyan Pub. Ludhiana, 2014.
14. Mandal, R. B. Uyanga J. and Prasad H. Introductory Methods in Population Geography, Concept Pub. C. New Delhi - 2007.
15. Maurya S. D., Population Geography, Pravalika Pub. Allahabad, 2014.
16. Newbold, K. B. - Population Geography : Tools and Issues, Rawat Pub. Jaipur, 2012.
17. Palmore, J. A. and Gardner R. W. Measuring, Mortality, Fertility and Migration : A Self Teaching Guide to Elementary Measures. The East-West Centre, Honolulu, 1987.
18. Poston, Jr. D. L. and Borrvier L.F., Population and society : An Introduction to Demography, Cambridge Uni. Press, New York, 2010
19. Premi M. K. and Das D. N. Population of India 2011, b. R. Pub. Delhi, 2012.
20. Srinivas, K. Basic Demographic Techniques and Applications, Sage Pub. New Delhi, 1998.
21. Trewartha, G. T. A. Geography of Population : World Patterns, N. Y. 1969.

Selected Readings :

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M. A. Geography (Semester - IV)
Code- GEO-M 401 D (Elective Course - 01)
Geology of India (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

- Unit I** Definition and scope of Geology, Principles of correlation, Standard Stratigraphical scale, Indian Stratigraphic scale
- Unit II** Origin, geographical distribution and lithological characteristics of Dharwar system, Vindhyan System, Gondwana system and Deccan Lava system.
- Unit III** Classification, mode of occurrence and distribution of the following minerals with special reference to India - Iron ore, Mica, Bauxite and Copper
- Unit IV** Classification mode of occurrences and distribution of energy resources in India : Coal, Petroleum, Uranium and Thorium
- Unit V** Rocks and minerals association, form, structure and classification of igneous rocks, Origin and types of sedimentary rocks, Processes of metamorphism, Types and characteristics of metamorphic rocks

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Selected Readings :

1. Wadia, D. N. - Geology of India
2. Mukharjee, P. K. - Physical Geology
3. D. P. Singh - भारत का भूवैज्ञानिक परिचय
4. Mehar D.N. Wadia - Minerals of India.
5. Gokhale and Rao - Minerals of India.
6. Platt and Charlier - Simple Geological Structures
7. Karna, N.N. - सरल भूवैज्ञानिक संरचनाएँ
8. Singh, Jagdish & B. P. Rao - भौतिकीय मानचित्रों की समझ.

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M. A. Geography (Semester - IV)
Code- GEO-M 401 E (Elective Course - 01)
Settlement Geography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

- Unit I** Meaning and Scope of Settlement Geography
Development of Settlement Geography in India
Evolution of Settlement in the Middle Ganga Valley
Types of Rural Settlement in India
- Unit II** Development of Different forms of Rural Settlements
Morphological features of Rural Settlements
Problems of rural settlements
Rural marketing system and its importance
- Unit III** Rural house types in different geographical environment in India
Rural Services centres
Hierarchy of Settlements
House building materials
- Unit IV** Locational and functional features of urban settlements
Morphological features of Indian cities
Problems of Indian urban centres
Problems of slums in India with reference to Mumbai and New Delhi
- Unit V** Planning of Rural settlements
Planning of urban settlements
Metropolitan region
Concept of Smart Cities

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Selected Readings :

1. Hopkinson, D. (1989) Geography of Settlement, Oliver & Boyd
2. Hudson, F. S. (1970) Geography of Settlement, Mackold & Erna.
3. Singh, R. L. (ed.) Rural Settlements in Monsoon Asia.
4. Carter, H. (1972) The Study of Urban Geography, Arnold Heinemann.
5. Misra, R. P. & K. Misra (Ed.) Million Cities of India, Nica Publisher.
6. Singh, R. Y. : An Introduction of settlement Geography.
7. Ghosh, S. : Settlement Geography.
8. Sinha, V. N. P. Verma, U, & Sahay, A. Introduction to Settlement Geography.

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M. A. Geography (Semester - IV)
Code- GEO-M 401 F (Elective Course - 01)
Advance Cartography (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

The objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

Unit I

Brief history of cartography and its present status;
Fundamentals of computer based cartography and its application;
Thematic maps - types and their use.

Unit II

Mathematical construction and characteristics of the following map projections.
Conical Equal - Area with one standard parallel (Lambert's V) Gromonic projection (equatorial Case); Stereographic projection (Equatorial Case); Cassini's Projection

Unit III

Principles of triangulation Survey : Measurement of base-line in triangulation survey. Definition and characteristics of the following astronomical terms - Azimuth, Right Ascension, Hour Angle, Star at elongation, Altitude, Declination.

Unit IV

Brief history and basic principle of Photogrammetry : types and scales of aerial photographs. Interpretation of aerial photographs, Importance of aerial Photographs for defence System

Unit V

Brief history of satellite remote sensing :
Concept of remote sensing, GIS
Development of remote sensing in India
Elements of the interpretation of satellite imageries

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Selected Readings :

1. F. J. Monkhouse - Maps & Diagrams & H. R. Wilkinson.
2. Sinha, M. M. P. & Bala, Seema - *Advanced Cartography*, Sharda Publication, Allahabad.
3. Kanetkar - *Surveying and leveling Vol. II*.
4. Purnia, B. C. - *surveying Part II & III*.
5. Sarkar, A. - *Practical Geography : A Systematic Approach*, Orient Blackswan Private Ltd.
6. Singh, R. L. and Singh, R. P. B. - *Elements of Practical Geography*, Kalyani Publishers, New Delhi.
7. Maitra, K. K. and Maitra, S. R. - *concept of Cartography, Remote Sensing and G. I. S.* - rijesh Publication, New Delhi.
8. Davis, R. E. Foote, F. S. and Kelly, J. W - *Surveying : Theory and Practice*.
9. Misra, R. P. Singh Brijesh and Pandey, Anupam - *Fundamentals of Cartography*, Concept Publishing Company Pvt. Ltd., New Delhi.
10. Narayan, L.R. A. - *Remote Sensing and its Application*, Universities Press, Hyderabad.
11. Venkatramalah, C. - *textbook of Surveying*, Universities Press, Hyderabad.
12. Joseph, George - *Fundamentals of Remote Sensing* Universities Press, Hyderabad.
13. Fazal, S. - *Remote Sensing Basics*, Kalyani Publishers Ludhiana.
14. Lifesard, T. M. Kiefer, R. W. and Chipman, J. W. - *remote Sensing and image Interpretation* Wiley India Pvt. Ltd. new Delhi.

Q.12. Explain the concept of remote sensing, sampling, data, and processing. Discuss the role of remote sensing in a well-planned environment. Illustrate the importance of ground observations and applications.

Q.13. Discuss the role of remote sensing and applications. Discuss the role of remote sensing in a well-planned environment. Illustrate the importance of ground observations and applications.

Q.14. Discuss the role of remote sensing and applications. Discuss the role of remote sensing in a well-planned environment. Illustrate the importance of ground observations and applications.

Selected Readings :

1. Gopal, S. 1980. *Remote Sensing Methods and the Computer*, J. Jaypee Brothers, Allahabad, U. Delhi. National Institute of Geographical Studies, Varanasi, New Delhi.
2. Prasad, B. 1982. *Remote Sensing: Principles of Remote Sensing*, Prentice Hall, New Delhi.
3. Kiefer, R. W. et al. 1982. *Remote Sensing: Elements of Cartography*, John Wiley, New York.
4. Gopal, S. 1980. *Remote Sensing Methods and the Computer*, J. Jaypee Brothers, Allahabad, U. Delhi.

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M. A. Geography (Semester - IV)
Code - GEO-M 402 Elective Course - 01
Dissertation/Project Work (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 50 Marks

CIA : 50 Marks

Students have to prepare a Dissertation / Project work based on Socio-Economic survey.

The topic will be approved by departmental council.

ESE will consist of total of 50 marks out of which, 40 marks will be on a written test and 10 marks for Viva Voce on dissertation. CIA will comprise of written test, Presentation and brief summary of report.

Students have to submit one copy of dissertation/Project work report prior to the recommencement of the semester examination.

- Unit I** Procurement of a topographic map of 1:50,000 to 1:25,000 scale to study the settlement selected in its regional setting.
- Unit II** Collection of demographic, social & economic data of the village and towns from Census Reports to study the temporal changes in the profile of such characteristics.
- Unit III** Selection of sampling site, defining sampling size, and conducting socio-economic survey at households level with a self structured questionnaires and supplementing the information by personal observations and perceptions.
- Unit IV** Based on results of land-use and socio-economic survey of the households, preparation of a critical field-survey report Photographs and sketches, in addition to maps and diagrams, supplementary reports may be used

CIA 50 Marks

Selected Readings :

1. Gregory, S. 1980. Statistical methods and the Geographer, Longman, London.
2. Mahmood, A. 2008. Statistical Methods in Geographical Studies, Rajesh Pub., New Delhi.
3. Ibrahim, R. 1992. Socio-Economic, Profile of Mewat, Radha Publishers, New Delhi.
4. Robinson, A. H. et. al. 1995 (6th edition), Elements of Cartography, John Wiley, New York.
5. Raisz, E. 1962. Principles of Cartography, Mc Grow Hill, New York.

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M. A. Geography (Semester - IV)

Code- Discipline Specific Elective - DSE-01 (201-CC)

Regional Planning and Rural Development (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CLA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) $10 \times 2 = 20$ marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) $4 \times 5 = 20$ marks

Part - C

Five long answer Questions, Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. $3 \times 10 = 30$ marks

Unit I Regional Planning, Concept Merits and Limitation
Planning Process Sectoral, Temporal and Spatial Dimensions
Concept of Planning Region and Methods for Delineation of Regions

Unit II Special Purpose Planning Regions in India
River Valley Regions
Metropolitan Region
Problem Regions, Hilly and Tribal Regions

Unit III Indicators of Development
Regional disparities in India
Need for Regional Planning in India
Regional Development in India - Problems and Prospects

Unit IV Concept of Multi Level Planning
Role of Panchayati Raj Institutions in Rural Development
Defining Development and Rural Development : Gandhian approach to rural development

Unit V Area Based Approach to Rural Development : Drought : Prone Area Programme, PMGSY
Target Group Approach : SJSY, MGNREGA, Jan Dhan Yojana and PURA
Provision of Services : Physical and Social-Economic Access to Elementary Education and Primary Health Care and Micro Credit

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30 Marks

Unit
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Selected Readings :

1. Bhatt, L. S. 1973, *Regional Planning in India*, Statistical Publishing Society, Calcutta.
2. Chandana, R. C. 2000, *Regional Planning*, Kalyani Publishers, Ludhiana.
3. Chand, M. Puri & V. K. 1983, *Regional Planning in India*, Allied Publishers, New Delhi.
4. Friedman, J. & Alonso, W. 1967. *Regional Development and Planning-A Reader*, MIT Press, Cambridge Mass.
5. Glasson, 1980. *Regional Planning*, Hutchinson, London.
6. Glikson, A., 1955. *Regional and Development*, Netherlands, Universities Foundation of International Corp. London.
7. Mishra, R. P. 1969, *Regional Planning Concepts, Techniques and Policies*, University of Mysore, Mysore.
8. Mishra, R. P. et. al., 1974. *Regional Development and Planning in India*, Institute of Development Studies, Mysore.
9. Rao, V. L. B., 1960. *Regional Planning*, Asia Publishing House, New Delhi.
10. Kant Surya et.al. (eds) : *Reinventing Regional Development*, Rawat Publication, Jaipur and N. Delhi.
11. शिवराव वर्मा एवं बौद्धान-प्रदेशिक नियोजन एवं संकुलित विकास.
12. Singh K. *Rural Development*, SAGE.

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M. P. Chand
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R. P. Mishra
22/11/2019

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M. A. Geography (Semester - IV)
Code- Generic Course - FE - 01
Geography of Bihar (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

The questions for End Semester Examination Comprises of three parts as mentioned below

Part - A

Ten objective type Question : All questions to be answered (Questions shall be selected from the whole syllabus preferably two questions from each unit) 10 x 2 = 20 marks

Part - B

Five short Answer Questions - Four questions to be answered (Questions shall be selected from the whole syllabus preferably one question from each unit) 4 x 5 = 20 marks

Part - C

Five long answer Questions. Three questions to be answered. (Questions shall be selected from the whole syllabus preferably one question from each unit. 3 x 10 = 30 marks

Unit I	Historico- Political evolution of Bihar as a State, Geological Formation and Physiographic Divisions, Drainage, System and soil groups
Unit II	Climate, Regional Variation in Rainfall and Temperature, Seasonal Variation of Annual variation in rainfall Flood and Drought Prone Areas Impact of rainfall variations on Bihar's economy
Unit III	Landuse and Agriculture : Landuse Pattern, Agricultural Infrastructure, Agricultural Seasons, Food Crops, Cash Crop. Development and Prospect of Horticulture, Aquaculture, Floriculture, Herbal Plants, Pisciculture, Agricultural Regions.
Unit IV	Industries : Agro Based Industries, Small and Cottage Industries; Sugar industries Prospects of Food and Fruit Processing Industries Industrial Regions
Unit V	Population and Settlement : Population Growth, Distribution, Occupation Age and Sex Ratio : Occupational Structure ; Literacy Migration of Population Evolution of Settlement : Types and Pattern,
CIA 30 Marks

Selected Readings :

1. M. S. Pandey - Historical Geography and Topology of Bihar.
2. Ahmed, E. - Bihar-Physical, Economic and Regional Geography.
3. Sirha, VNP and Nazim Md. - Bihar Land and People.
4. Sharma, N. - Bihar Ka Bhugol (Hindi).

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B.R.A. Bihar University
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