

M. A. Geography (Semester - III)

Code- GEO-M 201 (Core Course - 05)

Regional Planning and Rural Development (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 Regional Planning : Concept, Merits and Limitation Importance
Planning Process - Sectoral, Temporal and Spatial Dimensions
Concept of Planning Region and Methods for Delineation of Regions, Types of planning

Unit II Special Purpose Planning Regions in India
River Valley Regions
Metropolitan Region
Problem Regions - Hilly Regions, Tribal Regions, Flood & Drought prone regions

Unit III Indicators of Development - Poverty, Education, Sanitary Conditions
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,
Flood Prone Area Development Mining Area Development
Target Group Approach : MGNREGA, Jan Dhan Yojana
Provision of Services - Physical and Socio-Economic Access to Elementary
Education and Primary Health Care and Micro Credit System

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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. शरणागत ग्राम एवं ग्रामीण-समस्याओं का प्रश्नोत्तर एवं संश्लेषित विचार.
12. Singh, K. Rural Development, SAGE.

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Code- GEO-M 202 (Core Course - 06)

Environment and Disaster Management (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) $10 \times 2 = 20$ 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 Meaning and Scope of Environmental Geography; Factors of Environment
Ecology and Dynamics of Ecosystem : Food Chains, Energy Flow
Types of Ecosystem - Marine and Terrestrial

Unit II Environmental Degradation : Causes and Effects
Pollution - Air Pollution
Water Pollution
Sound Pollution
Soil Pollution

Unit III Global Warming - Causes and effects
Sea- level changes
Ozone depletion
Climate changes
Green House effect

Unit IV Environmental Hazards and Disasters : Flood and Droughts in India ;
International Environmental Treaties : The Stockholm Conference, Earth Summit,
Kyoto Conference
National Action Plan on Climate Change in India

Unit V Disaster - Man-made disasters, their types - Technological and Industrial Disasters
Man-made disasters - India Specific
Mapping the Disasters, Warning System especially for coastal areas

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Selected Readings :

1. Gaur, S. and Chandrashekhar, T 2006, *Global Environmental Crisis*, Book Enclave, Jaipur.
2. Chaudha, R. C. 1998, *Environmental Awareness*, Kalyani Publishers, New Delhi.
3. Gupta, P. D. 2003, *Environmental Issues for the 21st century*, Mital Publications, New Delhi.
4. Morris, D., Freeland, J. H Hinchliff, S. Smith, S. (ed.) 2003, *Changing Environments*, Pd. John Wiley and Sons Ltd, the Open University, U. K.
5. Park, C. C., 1980 *Ecology and Environmental Management*, Butterworths, London.
6. Radha, S., and Sankhyan, A. S, (ed.) 2004, *Environmental Challenges of the 21st Century*, Deep Publications, New Delhi.
7. Rasane, K. A. 2007, *Environment and Sustainable Development*, Series Publications, New Delhi.
8. Saxena, H. M., 2006, *Environmental Studies*, Rawat Publications, Jaipur.
9. Singh, S., 1991. *Environmental Geography*, Prayag Publication, Allahabad.
10. Strabler, A. N. and Strabler, A. M., 1997, *Geography and Man's Environment*, John Wiley and Sons, New York.
11. Taj, B., Murphy, P. and Rana, P. S. 2007, *Environmental Impact Assessment, An Indo-Australian Perspective*, Bookwell New Delhi.
12. Verma, S. B. and Shiva, K. S., (ed.) 2005, *Environmental Protection and Development*, Deep Publications, New Delhi.
13. Government of India (1997). *Vulnerability Atlas of India*. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
14. Kapur, A. (2010) *Vulnerable India : A Geographical Study of Disasters*, Sage Pub., New Delhi.
15. Modh, S. (2010). *Managing National Disaster : Hydrological Study*, Marine and Geological Disasters, Macmillan / Delhi.
16. Singh, R. B. (2005) *Risk Assessment and Vulnerability Analysis*, KINOU, New Delhi.
17. Singh, R. B. (ed.), (2006) *Natural Hazards and Disaster Management: Vulnerability a Mitigation*, Rawat Publications, New Delhi.
18. Sinha, A. (2001). *Disaster Management : Lessons Drawn and Strategies for Future*, New United Press, New Delhi.
19. Stehman, J. P. et. al. (2004) *International Perspective on Natural Disasters*, Kluwer Academic Publications, Dordrecht.
20. Singh, Jagbir (2007) "Disaster Management Future Challenges and Opportunities", 2007 Publisher-I. K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India.

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Code- GEO-M 203 (Core Course - 07)

Resource and Economic 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 Economic Geography.
Conservation and Management of Resources with special reference to :
(a) Water Resources
(b) Biotic Resources
Conventional Energy Resources : Coal, Crude oil, their Distribution, Production and Conservation.
Non-Conventional Energy Resources such as Solar and wind energy

Unit II Weber's Model and Smith's Models of Industrial location
Iron and Steel Industry and Cotton textiles Industry of the World with special reference to China and India

Unit III Distribution and production of some minerals in the World : Iron Ore, Copper ore and Atomic minerals
Macro Industrial regions of the World
Inter-regional Trade and Place of India in International trade

Unit IV Major Agricultural Regions of the World : India, U. S. A. China and Japan
Von Thunen's Model of Agricultural Location
Food Production, Problems and Food Security

Unit V World Trade Theories and Pattern
Impact of Globalization on World Economy
Role of WTO in World Trade
Concept of Export Processing Zone and SEZ (Special Economic Zone)

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Selected Readings :

1. Alexander, J. W. & Hartshorne, T. A. (1995) *Economic Geography*.
2. Hussain Majid, *Economic Geography*.
3. Gaha, J. L. & Chatteraj, P. R. (1998) : *A New Approach to Economic Geography : A Study of Resources*
4. Singh, J. & Dhillon, S. S. (1984) *Agricultural Geography*, New Delhi, Tata McGraw Hills.
5. Boesch, H. A. *Geography of world Economy*.
6. Brain, J. L., Berry et. al., *The Geography of Economic Systems*.
7. Barlow, M. H. & R. G. Newton, *Patterns and Processes in Man's Economic Environment*.
8. Chisholm, M. *Geography and Economics*.
9. Jones, C. F., *Economic Geography*.
11. Lloyd, P. & P. Dickens, *Location in Space : A Theoretical Approach to Ec. Geo.*
12. Strahler, A. N. & A. Strahler, *Geography and Economy Activity*.
13. Thomas, R. S. & E. C. Conkling, *The Geography of Economic Activity*.
14. Thomas, R., *Eco. Geog.* in *International Encyclopedia of Science*.
15. Miller, E. & e. Willard, *A Geography of Manufacturing*.
16. Mc. Carty, H. & J. B. Lindberg, *A Preface to Economic Geography*.
17. Von Royen, W., *Fundamentals of Economic Geography*.
18. William Von Royen, et. al., *Fundamentals of Economic Geography*
19. Zimmerman, E. W. *World Resources and Industries*.
20. Hartshorn, T. A. *Economic Geography*.
21. Majid Hussain, *Economic Geography*.

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Code- GEO-M 204 (Core Course - 08)

Geography 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 India - Relief and Structure : Peninsular and Himalayan Drainage System
Origin and Mechanism of Indian Monsoon
Soils of India : their types, Soil Erosion and Conservation

Unit II Forest Resources of India : Types of Forests and its importance in Indian economy
Sources of Power : Coal, Petroleum and Hydro-electricity,
Non Conventional Sources of Energy -Solar energy wind energy Tidal energy

Unit III Industrial Regions of India
Industrial Policy of India : Concentration and Dispersal
Agricultural Revolutions in India - Green, Blue, Yellow and White

Unit IV Human Resources and Social well being : Social well-being and its indicators
Human Development Index (HDI), Problem of unemployment and its solution
Cultural Regions of India

Unit V Spatial distribution of Tribes, Major Linguistic Groups and Ethnicity, Social and Gender inequality in India, Benefits and social implications of female reservation

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Selected Readings :

1. Spate O. H. K. & Learmont - Geography of India & Pakistan
2. Ramamoorthy & Gopal Krishnam - Geography of India
3. Singh, Gopal - Geography of India
4. Singh, Jagdish - INDIA : A Comprehensive Systematic Geography
5. Puri, G. S., Indian forest Ecology, New Delhi.
6. Ray Chaudhary, S. P. Land and soil, New Delhi.
7. Krishnan, M. S. Geography of India and Burma
8. Das, P. K., The Monsoon, New Delhi.
9. Wadia, D. N. Geography of India, London
10. वसुदेव वसुदेविका - भारत का भूगोल
11. गीतानन की एसए एवं गीताननिका - भारत : A Geography of India
12. सिंह ए गीतानन - भारत का भूगोल.

Unit I 10

Unit II 15

Unit III 20

Unit IV 25

Unit V 30

CLA 35

Selected Reading

1. Spate O. H. K. & Learmont, M. J. (1950) - Geography of India & Pakistan, London.

2. Ramamoorthy, S. & Gopal Krishnam, M. (1955) - Geography of India, Madras.

3. Singh, Gopal (1956) - Geography of India, Lucknow.

4. Singh, Jagdish (1961) - INDIA : A Comprehensive Systematic Geography, Meerut.

5. Puri, G. S. (1962) - Indian forest Ecology, New Delhi.

6. Ray Chaudhary, S. P. (1963) - Land and soil, New Delhi.

7. Krishnan, M. S. (1964) - Geography of India and Burma, Madras.

8. Das, P. K. (1965) - The Monsoon, New Delhi.

9. Wadia, D. N. (1966) - Geography of India, London.

10. वसुदेव वसुदेविका (1967) - भारत का भूगोल, दिल्ली.

11. गीतानन की एसए एवं गीताननिका (1968) - भारत : A Geography of India, दिल्ली.

12. सिंह ए गीतानन (1969) - भारत का भूगोल, दिल्ली.

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Code- GEO-M 205 (Practical) (Core Course - 09)

Cartographic Techniques (5 Credits)

Time : 3 Hours (ESE)

Full Marks : 100

ESE : 70 Marks

CIA : 30 Marks

In the End Semester Examination questions will be set preferably from each unit out of which candidates are required to answer any three questions.

Each Question will carry 20 marks (20 x 3 = 60 marks)

Practical record and viva voce will comprise 10 marks

Unit I	Cartograms : Hypsographic, Climographic and Allometric Frequency Curves
Unit II	Relief Profiles : Serial, Superimposed, Composite and Projected Slope Analysis by : Smith and Wentworth Methods
Unit III	Map Projections : Mercator's, Sinusoidal, Polyconic and International Projection
Unit IV	Interpretations of Aerial Photographs, Satellite Imagery, Weather maps Geological section and Interpretation of Geological Maps
Unit V	Practical Record and Viva-Voce
CIA 30 Marks

Selected Readings :

1. Monkhouse and Wilkinson - Maps and Diagrams
2. Mahmood, Aslam, "Statistical Methods for Geographical Studies."
3. Campbell, J., Introductory Cartography, Prentice Hall, Inc., Englewood Cliff, New Jersey, 1984.
4. Cuff, D. J., & Mattson, M. T. Thematic Maps, their Design and Production, Methuen, New York, 1982.
5. Robinson, A. H. & others, Elements of Cartography, John Wiley and Sons, New York (New edition).
6. Archer, J. E., & Dalton, T. H. Fieldwork in Geography, London.
7. National Atlas and Thematic Maps Organization (MATMO) : National Atlas of India, Calcutta.
8. Monkhouse, F. J., Maps and Diagrams, Methuen & Co, Londo, 1967.
9. Singh and Singh, Practical Geography.

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10. Spurr S. H., Photogrammetry & Photo Interpretation, New Delhi, 1960.
11. Stanshaw, A. I., Aerial Photography.
12. Tomar, M. A. & Mashkar, A. R., Aerial Photographs in Landuse & Forest Survey, Dehra-Dun.
13. Thomas, E. A., Interpretation of Aerial Photographs, Minnesota.
14. Usill, G. W. (Revised by Heam, G. S.G.) Pract. Surveying, London, 1960.
15. White, L. P., Aerial Photography & Remote Sensing for Soil Survey.
16. Campbell, James, B. Introduction to Remote Sensing, 2nd Edt. Taylor & Francis, London.
17. Platt and Charliner - Simple Geological Structure
18. डाटा जेठो पैठो इतर्मा-इयोगलसक भूगोल की रूपरेखा.
19. डाटा पैठो आरठ घौहान-इयोगलसक भूगोल
20. डाटा चतुर्भुजमनोरिया एवं मलजैन-मानवीयविकासन एवं इयोगिक भूगोल.
21. डाटा बीमलाल - इयोगलसक भूगोल
22. डाटा एमठ एमठ पैठो सिन्हा एवं डाटा बीमलाल - एरुसलसकभौगिकी
23. सिंठ जगदीस और बी. पी. राव - भौगिकीय मानचित्रों की रूपरेखा

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