

Department of Geography  
M D University, Rohtak  
BA (Hons) in Geography/ Five Year Integrated Honours Programme in Geography  
Scheme of Examination

<b>Semester-III Examination (2011-12)</b>			
<b>Paper No.</b>	<b>Nomenclature</b>	<b>End -Term Exam</b>	<b>Internal Assessment</b>
301	Geomorphology	80	20
302	Indian Economy: Problems and Prospects	80	20
303	Indian Constitution and Polity	80	20
304	Oceanography	80	20
305	Thematic Cartography (Practical)	100	
	a. Lab Test	60	
	b. Practical Record	30	
	c. Viva-voce	10	
 <b>Semester-IV Examination (2011-12)</b>			
401	Climatology	80	20
402	Governance in India	80	20
403	History of India	80	20
404	Economic Geography	80	20
405	Basic Principles of Land-Surveying (Practical)	100	
	a. Lab Test	60	
	b. Practical Record	30	
	c. Viva-voce	10	

SEMESTER-III  
PAPER-301  
GEOMORPHOLOGY

Max. Marks:100  
End- term exam:80  
Internal Assessment:20

**Max. Marks: 80**

**Time: 3 Hrs.**

Unit-I

Geomorphology: Nature and Scope; Earth's interior; Theory of isostasy- ideas of Pratt and Airy ; Wegner's Continental Drift Theory; Theory of Plate Tectonic.

Unit-II

Forces affecting the earth's crust: Endogenetic forces- folds and faults, vulcanism and seismicity.

Unit-III

Forces affecting the earth's crust: Exogenetic forces; weathering and mass-wasting; cycle of erosion-(Davis and Penck) Drainage system and patterns.

Unit-IV

Major land form features – mountains, plateaus and plains; Land Forms- origin and development of land forms associated with Fluvial, Aeolian and Glacial processes.

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

Books for Readings

1. Bloom, A.L.(1992), Geomorphology: A Systematic Analysis of the Late Cenozoic Landforms, New Delhi : Prentice-Hall of India
2. Dayal, P. (1996), A Textbook of Geomorphology, Patna : Shukla Book Depot.
3. Sharma, V.K. (1986), Geomorphology: Earth Surface Processes and Forms, New Delhi : Tata McGraw Hill Publishing Company.
4. Singh, Savinder: Geomorphology
5. Thornbury, W.D.(1969), Principle of Geomorphology, New York : Wiley International Edition

PAPER-302  
**Indian Economy : Problems and Prospects**

**Max. Marks:100**  
**End- term exam:80**  
**Internal Assessment:20**

**Max. Marks: 80**

**Time: 3 Hrs.**

**UNIT - I**

Introduction to Indian Economy – Basic characteristics and features of Indian economy.  
Economic Planning in India : Features ; Objectives and Assessment of Indian Planning.  
(Plan wise details to be excluded).

**UNIT - II**

Demographic features of India's population. Inter-state disparities in the pattern of development. Structural Change in the distribution of Income and Workforce in India.

**UNIT – III**

Poverty and unemployment in India. Programmes for eradication of poverty and unemployment with special reference to the post – reform era.

**UNIT – IV**

Agriculture: Features of Indian Agriculture; Impact of Green Revolution on Indian Agriculture; Recent Trends in Agricultural Development - Causes of Deceleration and Future Challenges

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

**Essential Readings:**

- |  |   |
|--|---|
| Brahmananda, P.R. and Panchmukhi : The Development Process of Indian Economy, V.R. (eds.) 1987 | Himalaya Publishing House, Bombay.  |
| Lucas ,E.B., and Papanek, G.F. (eds.) 1988   | : The Indian Economy- Recent Developments and Future Prospects, Oxford University Press, New Delhi. |
| Jalan, Bimal 1992  | : The Indian Economy – Problem and Prospects, Viking, New Delhi.                                    |

**Further Readings:**

- |                               |   |  |
|-------------------------------|---|--|
| Byres, T J (Ed.) (1998)       | : | The Indian Economy: Major Debate Since Independence, Oxford University Press, New Delhi. |
| Economic Survey               | : | Government of India. Various Issues.   |
| Economic and Political Weekly | : | Various Issues   |

PAPER-303  
INDIAN CONSTITUTION AND POLITY

Max. Marks:100  
End- term exam:80  
Internal Assessment:20

**Max. Marks: 80**

**Time: 3 Hrs.**

Unit-I

Indian constitution: Features, Preamble, Fundamental Rights and Duties, Directive Principles of State Policy.

Unit-II

Main organs of union executive- President, Prime Minister, Council of Ministers; State Executive- Governor & Chief Minister; Legislation - Parliament- Lok Sabha and Rajya Sabha; State Legislature; Judiciary – Supreme Court and High Court.

Unit-III

Indian Federal System; Electoral process, Election Commission, Electoral reforms, problems of defections.

Unit-IV

Political System in India - National and Regional political parties; Interests and pressure groups with special reference to caste and class politics of reservations.

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

Books for Readings

1. D.D.Basu, An Introduction to the Constitution of India, New Delhi, Prentice Hall, 1994.
2. P.Brass, Language, Religion and Politics in North India, London, Cambridge University Press 1974.
3. B.L.Fadia, State Politics In India, 2 vols. New Delhi, Radiant Publishers, 1984.
4. S.Kaushik (ed.), Indian Government and Politics, Delhi University, Directorate of Hindi Implementation, 1990.
5. R.Kothari, Politics in India, New Delhi, Orient Longman, 1970.
6. P.Brass, Politics of India Since Independence, Hyderabad, Orient Longman, 1990.
7. J.R.Siwach, Dynamics of Indian Government & Politics, New Delhi, Sterling Publishers, 1985.

PAPER-304  
OCEANOGRAPHY

**Max. Marks:100**  
**End- term exam:80**  
**Internal Assessment:20**

**Max. Marks: 80**

**Time: 3 Hrs.**

**Unit-I**

Configuration of ocean floor- continental shelf, continental slope, deep plains, deeps/ trenches and ridges; Bottom relief of the Atlantic and the Indian ocean .

**Unit-II**

Oceans: Temperature and Salinity, Temperature – Factors affecting, Distribution – horizontal and vertical; Salinity- Composition, Factors affecting and Distribution of Salinity

**Unit-III**

Circulation of oceanic water: Tides- types and origin, Currents: types, origin and distribution; Currents of the Atlantic, the Pacific and the Indian Ocean; Impact of ocean currents on climate and economy.

**Unit-IV**

Marine deposits: nature, classification and world distribution; Coral reef – Condition of growth; types and distribution; world, Oceans as a store house of resources.

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

**Books for Readings**

1. Husain, Majid (2001), Fundamentals of Physical Geography, Jaipur : Rawat Publications.
2. Lake, Philip (2002), Physical Geography (Indian Ed.), New Delhi : Mohit Publications.
3. Sharma, R.C. and Vatal, M (1980) – Oceanography of Geographers, Allahabad : Chaitanya Publishing House, Allahabad.
4. Strahler, Alan and Strahler, Arthur (2002), Physical Geography. 2<sup>nd</sup> Edition New York : John Wiley & Sons.
5. Denny, M.,2008, *How the Ocean works: An introduction to Oceanography*, Princeton University Press, New Jersey.
6. T. Garrison, 2006, *Oceanography :An Invitation to Marine Science*, Thomson, Brooks/Cole.
7. S.Kerhsaw, 2004, *Oceanography: An Earth Science Perspective*, Routledge, UK.
8. Garrison,T.,1995,*Essentials of Oceanography*, Wadsworth Pub. Co., London.
9. Kennet,J.P.,1982,*Marine Geology*, Prentice Hall, Englewood Cliff, New Jersey.
10. Shepard, F., 1969, *The Earth Beneath the Sea*, Athneum, Rev.ed., New York.
11. Sieboldt,E., andW.H.Berger,1994,*The Sea Floor*,2<sup>nd</sup> ed., Freeman, New York.
12. Von Arx, W.S.,1962, *An Introduction to Physical Oceanography*, Addison, Wesley, New York.
13. Stopmmel, H., 1987, *A View of the Sea*, Princeton University Press, New Jersey.

PAPER-305  
THEMATIC CARTOGRAPHY

**Max. Marks:100**  
**Lab Test : 60**  
**Practical Record : 30**  
**Viva voce : 10**

**Max. Marks: 80**

**Time: 4 Hrs.**

Unit-I

Cartography – An Introduction; Techniques in thematic data presentation : Bar, line and circle diagram, climograph and ergograph

Unit-II

Techniques in thematic mapping; Selection of class intervals; areal data – choropleth, dot method, proportional circles and spheres; point data – isopleths; linear data – flow line.

Unit-III

Cartographic overlays – areal, point and line data; choropleth maps to be overlain by bar diagrams/line graphs/ circles, Dot map to be overlain by proportional circles/ spheres.

Note:

1. At least fifteen exercises five from each are to be prepared covering all the topics.
2. In the examination, the lab test shall comprise of six questions in all with at least two questions from each unit. The candidate has to attempt three questions selecting one from each unit.
3. All questions carry equal marks.

Books for Readings

1. Monkhouse, F.J : Maps & Diagrams.
2. Sharma, J.P. : Prayogik Bhoogol, Meerut, 2010
3. Singh, R.L. : Prayogik Bhoogol, Varanasi.
4. Robinson : Cartographic Techniques in Geography

SEMESTER-IV  
PAPER-401  
CLIMATOLOGY

**Max. Marks:100**  
**End- term exam:80**  
**Internal Assessment:20**

**Max. Marks: 80**

**Time: 3 Hrs.**

**Unit-I**

Climatology: An Introduction; Climate and Weather; Elements and Controls of Climate; Composition and Structure of the atmosphere.

**Unit-II**

Atmospheric Temperature: Insolation; Vertical, horizontal and seasonal distribution of global temperature; Heat Budget of the Earth.

**Unit-III**

Atmospheric pressure and wind distribution; Atmospheric moisture-humidity, evaporation and forms of condensation; types of precipitation; world patterns of rainfall.

**Unit-IV**

Air masses - concept and classification: Atmospheric disturbances; tropical and temperate cyclones and anticyclones.

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

**Books for Readings**

1. Aggarwal, S.K.(1992), Fundaments of Ecology, New Delhi : Ashish Publishing House.
2. Bhutani, Smita(2000), Our Atmosphere, edited by R.C. Chandba, Ludhiana : Kalyani Publishers.
3. Brady, N.C.(1974), The Nature and Properties of Soils ; New York:Mcmillan.
4. Briggs, D.(1977), Soils, London : Butterworths.
5. Critchfield, H.J. (1975), General Climatology, New Delhi:Prentice Hall of India Private Ltd.
6. Lal, D.S.,(1989), Climatology, Allahabad : Chaitanya Publishing House.
7. Mathew, J.R. (Latest Edition), Climatology, New York : Mc Graw Hill.
8. Mathur H.S. (2003), Essentials of Biogeography, Jaipur : Pointer Publishers.
9. McKnight, Tom L. (1990), Physical Geography – A Landscape Appreciation, New Jersey : Prentice Hall.
10. Pears, N. (1985), Basic Biogeography; London : Longman.
11. Robinson, M.(1982), Biogeography, London : Macdonald and Evans.
12. Singh, Savinder, (2004), Climatology, Allahabad : Prayag Pustak Bhavan.
13. Stringer, E.T. (1982), Foundations of Climatology, Delhi : Surjeet Publications.
14. Trewartha, G.T. (1980), International; Student Edition, An Introduction to Climate, New Delhi : McGraw Hill Book Co.

PAPER-402  
GOVERNANCE IN INDIA

**Max. Marks:100**  
**End- term exam:80**  
**Internal Assessment:20**

**Max. Marks: 80**

**Time: 3 Hrs.**

**Unit-I**

Central Administrative Machinery – Cabinet Secretariat and Cabinet Secretary; Central Secretariat - Prime Minister Office; Planning Machinery, Planning Commission, National Development Council, Preparation of Five Year Plans and their implementation.

**Unit-II**

Policy making – Formulation & Implementation; Budget preparation & enactment at the central level; RTI Act, 2005; Consumer Protection Act; Role of Finance Commission; CVC & CAG.

**Unit-III**

Administrative Machinery- State Secretariat & Chief Secretary; Role of State Public Service Commissions; Compositions & Role of State Planning Departments/ Boards, Centre - State Relations - Problems & prospects ; Lok Ayukta.

**Unit-IV**

Governance at Local Level: Divisional Commissioner, Deputy Commissioner, District Development and Panchyat Office; Democratic Decentralisation: 73<sup>rd</sup> & 74<sup>th</sup> Constitutional Amendments; Panchyati Raj Institutes & their role in Development; working of Urban local bodies, Role of District Planning Committees.

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

**Books for Readings**

- |    |                    |  |
|----|--------------------|--|
| 1. | D, Bhambir C.P.    | Public Admn. In India, Delhi Vikas Publication, 1973 |
| 2. | Arora, Ramesh K    | Issue in Public Admn.                                |
| 3. | Sharma, P          | Public Adm. In India Meerut, Meenakshi, 1978         |
| 4. | Siwach J.R.        | Dynamics of Indian Govt. Politics, 1990.             |
| 5. | Khera S.S.         | District Admn. In Inddia IIPA, New Delhi.            |
| 6. | Awasthi Maheshwari | Indian Adm: Theory of Practice                       |



PAPER-403  
HISTORY OF INDIA

**Max. Marks:100**  
**End- term exam:80**  
**Internal Assessment:20**

**Max. Marks: 80**

**Time: 3 Hrs.**

History of India

Unit I

Sources of Ancient Indian history ;pre historical age-salient features of Paleolithic,Mesolithic and Neolithic cultures in India.Harrapan Civilization,Socio economic conditions during Vedic age;Emergence and impact of Jainism and Buddhism.

Unit II

Administration ,policies and impact of Delhi Sultanate and Mughals on Indian Society;British Conquest of India;Structure of government and economic policy British Empire in India(1757-1857);Emergence and failure of revolt of 1857 .

Unit III

Causes of emergence of National Movement;Indian National Congress and Indian freedom movement;Constitutional development since 1909 with special reference to Government of India Act 1935; Negotiation for independence and transfer of power.

Unit IV

Mapping important locations in ancient, medieval and modern history .Detailed discussion on locating factors of important historical places and movements in Indian History.

**Note: -** The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

Books for Readings

1. Bipan, Chandra (ed.) Bharat ka Swatantrata Sangharsh, Hindi.
2. Sarkar, Sumit Adhunik Bharat, Rajkamal Publication, Delhi, 1999.
3. Tara Chand History of the Freedom Movement in India, Vol. 1 to 4, The Publication Division, Ministry of Information and Broadcasting, Delhi 1961.
4. D.N.Jha: Prachin Bharat, (Hindi) Madhyam Kiryanvan Nideshalay, Delhi University.
5. Romila Thapar: Prachin Bharat Ki Vakhaya, Granth Shilpi, Delhi.
6. H.C.Ray Chaudhary : Advanced History of India, Delhi, 1971 (Hindi also)
7. Romila Thapar: A History of India, Vol. 1, (Pelican), 1966, Penguin.
8. Satish Chandra: Medieval India, from Sultanate to the Mughals ( Delhi, Har Anand Publications, 1977)

PAPER-404  
ECONOMIC GEOGRAPHY

**Max. Marks:100**  
**End- term exam:80**  
**Internal Assessment:20**

**Max. Marks: 80**

**Time: 3 Hrs.**

Unit-I

Nature, scope and development of Economic Geography: Study of economic geography: systematic, regional and commodity methods; Economic activities : introduction classification and distribution.

Unit-II

Agriculture Typology, subsistence, commercial and plantation agriculture- characteristics and distribution; Von Thunen's model of Agricultural location

Unit-III

Industries: types, factors affecting location of industries, Weber's theory of industrial location; Major industries of the world- Iron and steel, Cotton Textile; Industrial regions of Asia with special reference to China, India and Japan.

Unit-IV

Transport modes; roadways, railways, airways and waterways: their relative importance; Transport net work – Major oceanic routes of the World; Inland water ways in North America.

Trade: Domestic and International; Main features of trade in South Asia

**Note:** - The question paper will have five units. Each of the first four units will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. Unit-V shall be compulsory and contain 8 short answer type questions covering the entire syllabus. All questions carry equal marks.

Books for Readings

1. Negi, B.S. : Economic Commercial Geography.
2. Mamoria C.P. ; Economic Geography.
3. Roy P : Resource & Economic Geography.
4. Siddarth K : Economic Geography

PAPER-405  
BASIC PRINCIPLES LAND SURVEYING (PRACTICAL)

**Max. Marks:100**  
**Lab. Test : 60**  
**Practical Record: 30**  
**Viva-voce : 10**

**Time: 4 Hrs.**

**Unit-I**

Surveying - An Introduction: Definition; Brief History; Types- Geodetic Surveying, Plane Surveying, Triangulation surveying, Traverse Surveying; Principles of Surveying; kinds of measurements; Sources of errors in Surveying.

Chain & Tape Surveying: - Reconnaissance sketch Map and fixing the triangles; Measurement with chain and fixing offsets and determination of magnetic north; Field Books entries in field book; Open and close traverse survey.

**Unit-II**

Plane Table Surveying (with the help of simple alidade and telescopic alidade) : Instruments; Methods of PT Survey- Radiation; Intersection; traversing; Resection- By compass; By back sighting, Three point problem- Mechanical and graphical; two point problem

**Unit-III**

Prismatic Compass Survey : Instruments, Methods – Traverse (Open and close), radiation and intersection, Plotting of bearings, closing errors (Bowditch's rule), graphical and mathematical methods, calculation of included angles.

**Note:**

1. At least fifteen exercises (five from each unit) are to be prepared covering all the topics.
2. In the examination, the lab test shall comprise of six questions in all with at least two questions from each unit. The candidate has to attempt three questions selecting one from each unit.
3. All questions carry equal marks.

**Books for Readings**

1. Kanetkar, T.P.: Surveying and Leveling, Pune
2. Roy Chaudhary R.P.: Surveying, Calcutta
3. J.P.Sharma,: Prayogik Bhoogol, Meerut.
4. R.L.Singh: Pryogatamak Bhoogal, Varanasi
5. Survey of India manuals for Surveying and leveling, Dehradun