

University of Jammu
M.A./M.Sc. Geography, 1st Semester

Course No: 400

Credit: 4

Duration of Examination: 3 hrs.

Title: Geomorphology

Max. Marks: 100

a) Semester Examination: 80

b) Sessional Assessment : 20

Detailed Syllabus for examination to be held in Dec. 2011,2012,2013.

	Contract Hours
UNIT-I	
Definition, Nature and Scope of Geomorphology	(3)
Fundamental concepts in Geomorphology.	(3)
Geosynclines & Mountain Building	(3)
Geomorphic ideas of Davis, Penk and King	(3)
UNIT-II	
Interior of the earth – Structure and Composition	(3)
Earth movements – types, causes and effects	(3)
Theories of Continental Drift, Plate Tectonics and Isostasy	(3)
Seismicity and Volcanism: Causes, Prone Areas, Distribution and types of Volcanoes, Effects of Earth Quakes and Volcanoes	(3)
UNIT-III	
Weathering and Mass movement – types and Associated Factors	(3)
Types of stream and drainage pattern	(3)
Development of landscapes – fluvial, glacial, Aeolian and Karst topography	(3)
Techniques of identification, correlation and measurement of geomorphological processes	(3)
UNIT-IV	
Soil formation and types	(3)
Slopes – evolution and replacement models	(3)
Geomorphic hazards – Landslides, Floods and Tsunami	(3)
Applied Geomorphology – Geomorphology and its application in agriculture, hazard management, Urbanization and mineral exploration	(3)

For Paper Setters:

Question paper shall contain two questions from each unit. Candidates shall be asked to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Recommended Readings:

Chorley, R.J., Spatial Analysis in Geomorphology, Methuen, London, 1972.

Cooke, R.U. and Doornkamp J.C., Geomorphology in Environmental Management – An introduction, Clarendon Press, Oxford, 1974.

Dury, G.H., The Face of Earth, Penguin Harmondsworth, 1959.

Fairbridge, R.W., Encyclopedia of Geomorphology, Reinholdts, New York, 1968.

Goudie, A., The Nature of the Environment, Oxford and Blackwell, London, 1993.

Gerner H.F., the Origin of Landscape – A synthesis of Geomorphology, Oxford University Press, London, 1974.

Mitchell, C.W., Terrain Evaluation, Longman, London, 1973.

Ollier, C.D., Weathering, Longman, London, 1979.

Pitty A.F., Introduction to Geomorphology, Methuen, London, 1971.

Stoddart, D.R., (ed): Process and Form in Geomorphology, Routledge, New York, 1996.

Skinner, B.J. & Porter, S.C., The Dynamic Earth, John Wiley, New York, 1995.

Sparks, B.W., Geomorphology, Longman, London, 1960.

Sharma H.S., (ed): Perspectives in Geomorphology, Concept, New Delhi, 1980.

Singh S., Geomorphology, Prayag Publication, Allahabad, 1998.

Thornbury, W.E., Principles of Geomorphology, John Wiley, New York, 1960.

Mauntes *Sharma* *by S. S. Singh* *de*

University of Jammu
M.A./M.Sc. Geography, 1st Semester

Code No: 401
Duration: 4
Duration of Examination: 3 hrs.

Title: Bio-Geography
Max. Marks: 100
a) Semester Examination: 80
b) Sessional Assessment : 20

Proposed Syllabus for examination to be held in Dec. 2011,2012,2013.

T-I	Contract Hours
Nature, Scope, Significance and Development of Bio-Geography	(3)
Biosphere – World of living things including plant and animal life	(3)
Bio-geographical cycles – Carbon, Oxygen and Hydrological cycle	(3)
Concept of Ecosystem (Mountain and aquatic Ecosystem)	(3)
 T-II	
Factors influencing the growth and distribution of plants in the world	(3)
Phytogeography of the world – Tropical Rainforests, Broad leaved Forests, Temperate Deciduous forests.	(3)
Plant Succession: Meaning and concept of primary and secondary Succession with examples	(3)
Plants and their classification, Taxonomic classification, Ecological Classification. Raunkiaer's and Grime's classification.	(3)
 T-III	
Zoogeographical realms of the world	(3)
Synecology: Quantitative and Qualitative characteristics of communities	(3)
Autecology: Ecological Life – Cycle	(3)
Remote Sensing in Biogeography	(3)
 T-IV	
National Parks, Wild Life Sanctuaries and Bioreserves in India	(3)
National Forest Policy of India	(3)
Human Impact on Natural Ecosystem	(3)
Conservation measures of Biosphere Reserve	(3)

Manikes *Sharma* *Asst. Secy. in-charge*

Paper Setters:

tion paper shall contain two questions from each unit. Candidates shall be to attempt four questions in all, selecting one question from each unit. A carry equal marks.

Readings:

garwal. D.P. Man and Environment in India Through Ages, Brooks and
books, 1992.

nbasht. R.S. Plant Ecology, Students, Friends and Co., Lanka: Varanasi – 5,
87.

adshaq M.J., Earch and Living Planet, ELBS, London, 1979.

ox C.D. and Moore P.D., Biogeography: An Ecology and Evolutionary
proach, 5th Edn. Blackwell, 1993.

aur R., Environment and Ecology of Early Man in Northern India, R.B.
ublication Corporation, 1987.

oyt J.B., Man and Earth Prentice Hall, U.S.A., 1992.

agget R.J., Fundamentals of Biogeography, Routledge, U.S.A., 1998.

lies, J., Introduction to Zoogeography, Mcmillan, London, 1974.

hoshoo, T.N. and Sharma, M.(eds) Indian Geosphere-biosphere, Har-Anand
ublication, Delhi 1991.

apedes, D.N., (ed) Encyclopedia of Environmental Science, McGraw Hill,
974.

athur H.S., Essentials of Biogeography, Anuj Printers, Jaipur, 1998.

ears, II, Basic Biogeography, 2nd edn, Longman, London, 1974.

immon I.G., Biogeography, Natural and Cultural, Longman, London, 1974.

ivy.J., Biogeography: A study of Plants in Ecosphere, 3rd Edn, Oliver and
oyd, U.S.A., 1992.

Naumes *Sharma* *by* *Devindey*

3

University of Jammu
M.A./M.Sc. Geography, 1st Semester

Code: 402

4

Duration of Examination: 3 hrs.

Title: India: A Regional Geography

Max. Marks: 100

a) Semester Examination: 80

b) Sessional Assessment : 20

Syllabus for examination to be held in Dec. 2011,2012,2013.

	Contract Hours
Basis of Regionalization of India	(3)
Himalayan and peninsular drainage systems of India	(3)
Origin and Mechanism of Indian Monsoon	(3)
Soil, Vegetation, Forest types, their distribution and conservation	(3)
-II	
Resource regions of India – Production, Reserves and distribution of Coal, Petroleum and Hydro – Electricity	(3)
Production and distribution of Iron ore, Manganese, Bauxite, Mica and Copper	(3)
multipurpose Projects: The Damodar Valley, Bhakra Nangal, Kosi, Tungbhadra and Hirakud	(3)
Distribution growth and density of Population with special reference to Post – Independence Period	(3)
IT-III	
Main characteristics, features and problems of Indian agriculture	(3)
Irrigation and its development	(3)
2 Green revolution and its spatial dimensions	(3)
3 Industrial Development in India during plan periods	
4 Location pattern of Iron and Steelm Cotton and Jute textiles and sugar Industries, Industrial regions of India.	(3)

Maunika *Sharma* *by* *Tejinder*

3

- Regionalization of Sutluj – Gangetic Plain (3)
Regional Geography of J&K, Punjab and Himachal Pradesh (3)
Comparative analysis of eastern and western coastal regions of India (3)
Geography of India's Islands – Andamans (3)

Paper Setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

References:

- Ministry of Science & Environment (1988) State of India's Environment, New Delhi.
Shankar D., India's Regional Interpretation, ICSSR & Northern Book Centre, 1992.
Dutt, Jean & Amartya Sen (ed) India Economic Development and Social Change, Oxford University Press, New Delhi, 1996.
Mishra, A.R. & Moonis, Indian Economy – The regional Dimension, Spectrum Publishers, New Delhi, 1982.
Robinson, Francis, The Cambridge Encyclopedia of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan & Maldives, Cambridge University Press, London, 1989.
Singh, R.L., (ed) India – A Regional Geography, National Geographical Society, India, Varanasi, 1971.
State OHK & ATA Learmonth – India & Pakistan, Methuen, London, 1967.
Sinha R & Gopal Krishna, Emerging India, Reprinted by Rawat Publications, Jaipur, 1996.

Mamta *Sharma* *by All India*

(4)

University of Jammu
M.A./M.Sc. Geography, 1st Semester

Course No: 403

Credit: 4

Duration of Examination: 3 hrs.

Title: Fundamentals of
Population Geography

Max. Marks: 100

a) Semester Examination: 80

b) Sessional Assessment : 20

Detailed Syllabus for examination to be held in Dec. 2011,2012,2013.

	Contract Hours
UNIT-I	
1.1 Definition, Nature, Scope and Significance of Population Geography	(3)
1.2 Sources of Population data	(3)
1.3 Factors affecting Population distribution, Density and Growth	(3)
1.4 Components of Population change – Mortality and Fertility	(3)
UNIT-II	
2.1 Concepts of Overpopulation, under population and Optimum Population	(3)
2.2 India and World: Urbanization and Literacy Patterns	(3)
2.3 India and World: Age and Sex composition of Population	(3)
2.4 India and World: Occupational Structure	(3)
UNIT-III	
3.1 The Demographic Transition Theory	(3)
3.2 Migrations – Types, Causes and Consequences	(3)
3.3 Population Problems of under Developed and Advanced Countries	(3)
3.4 Population Resource Regions of the World	(3)
UNIT-IV	
4.1 Theories of population – Malthus, Marx	(3)
4.2 Definition, Types and Objectives of the Population Policies	(3)
4.3 Population Policy of India	(3)
4.4 Population Policy of China	(3)

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for Paper Setters:

question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Suggested Readings:

1. Barrett, Hazel R., Population Geography: Conceptual Frameworks in Geography, Oliver and Boyd, London, 1994.
2. Bogue, D.J., Principles in Demography, John Wiley, New York, 1969.
3. Bose, Ashish et. Al, Population in India's Development (1947-2000), Vishal Publishing House, New Delhi, 1974.
4. Census of India, India : A State Profile, 1991.
5. Chandna, R.C., Geography of Population: Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi, 2000.
6. Clarke, John I, Population Geography, Pergamon Press, Oxford, 1973.
7. Crook, Nigel, Principles of Population and Development, Pergamon Press, New York, 1997.
8. Garnier, B.J., Geography of Population, Longman, London, 1970.
9. Mitra, Asok, India's Population: Aspects of Quality and Control. Vol I & II, Abhinav Publications, New Delhi, 1978.
10. UNdp: Human Development Report, Oxford University Press, Oxford 2000.
11. Woods, R., Population Analysis in Geography, Longman, London, 1979.
12. Zelinsky Wilbur, A Prologue to Population Geography, Prentice Hall, 1966.

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Sharma

by the new index list

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University of Jammu
M.A./M.Sc. Geography, 1st Semester

Course No: 404

**Title: Quantitative Techniques
in Geography**

Unit: 4

Max. Marks: 100

Duration of Examination: 3 hrs.

a) Semester Examination: 50
b) Sessional Assessment : 50

Proposed Syllabus for examination to be held in Dec. 2011,2012,2013.

T-I	Contract Hours
Unit-I Significance of Statistical techniques in Geographic studies, Sources and Collection of Data, Tabulation of Data, Graphic representation: Histogram, Frequency Curve and Frequency Polygon.	(12)
Unit-II Measures of Central Tendency: Mean, Median, Mode. Measures of Variation and Dispersion: Crude Range, Quartile Deviation, Median and the Quartile, Standard Deviation.	(12)
Unit-III Correlation Analysis : Karl Pearson's Product Moment and Spearman's Rank Correlation. Scatter diagram: Test of Significance on Correlation Coefficient. Simple Linear Regression and Ordinary Least Square Method of fitting Regression Line: Coefficient of Determination.	(12)
Unit-IV Theory of Sampling: Types of Sampling: Sample units and design, Standard Error and Sample size, Testing and adequacy of Sample. Hypothesis testing: Methods and types of hypothesis, goodness of fit and significance and confidence level. Chi-Square Test.	(12)

Dr. Anurag *Dr. Anurag* *Dr. Anurag*

For Paper Setters:

Question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Suggested Readings:

1. David Unwin, Introductory Spatial Analysis, Methuen, London, 1981.
2. Gregory S., Statistical Methods and the Geographer, Longman, London, 1978.
3. Hammond R, and P.S.McCullagh, Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford, 1974.
4. John, Pcole and Cuchlaine A.M.King, Quantitative Geography, John Wiley, London, 1968.
5. Johnston R.J., multivibrate Statistical Analysis in Geography, Longman London, 1973.
6. Koutsoyiannis, theory of Economics, Mcmillan, London, 1973.
7. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
8. Peter Hagget, Andrew D. Cliff & Allan Frey, Location Methods Vol.1 and II, Edward Arnold, London, 1977.

Maurice *John* *by L. Unwin*

6

University of Jammu
M.Sc. Geography, 1st Semester

Title: Cartography
Max. Marks: 100
a) Semester Examination: 50
b) Sessional Assessment : 50

Duration: 3 hrs.

Syllabus for examination to be held in Dec. 2011, 2012, 2013.

	Contract Hours
UNIT-I Introduction – Trends in the development of cartographic techniques for descriptive, analytical and perspective aspects in the use of maps, maps and their significance.	(12)
UNIT-II Thematic Cartography – Physical 1. Assessment of land quality by using different attributes in the evolution of landforms and measuring their association and special differentiation. 2. Land based resources and cover and land use.	(12)
UNIT-III Thematic cartography – Socio-economic: Data sources and techniques of analysis of socio-economic data through the preparation of single purpose and composite maps.	(12)
UNIT-IV Creation of spatial data base and application using GIS, remote sensing and computer cartography, preparation of spatial models in cartography and planning.	(12)
<u>Note for Paper Setters:</u>	

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

M. Arun Kumar *S. Arun Kumar* *Byg* *All India*

6

Suggested Readings:

1. Berry J.L. Geography of Market Centers and Retail Distribution, Prentice Hall, New York, 1967.
2. Chatterjee, S.P.: Economic Geography of Asia, Allied Book Agency, Calcutta, 1984.
3. Chorley, R.J. and Haggett, P(ed): Network Analysis in Geography, Arnold, 1969.
4. Dreze, J and Sen, A: India-Economic Development and Social Opportunity, Oxford University Press, New Delhi, 1996.
5. Eckarsley, R(ed): Markets, The State and the Environment, McMillan, London, 1995.
6. Garnier, B.J. and Delobez, A Geography of Marketing, Longman, London, 1979.
7. Hamilton, F.E.I.: Spatial Perspectives on Industrial Organization and Decision Making, John Wiley, New York, 1974.
8. Hamilton, I.(ed): Resources and Industry, Oxford University Press, New York, 1992.
9. Hurst E: Transport Geography-Comments and Readings, Mc Graw Hill, New York, 1974.
10. Morgan, W.B and Munton R.J.C.: Agricultural Geography, Methuen, London, 1977.
11. Pachuri, R.K. Energy and., Economic Development in India, Praeger, New York, 1977.
12. Robertson, D.(ed): Globalization and Environment, E.Elgar Co., U.K. 2001.
13. Rostow, W.W.: The Stages of Economic Growth, Cambridge University Press, London, 1960.
14. Singh J. and Dhillon S.S., Agricultural Geography, Mc Graw Hill, India, New Delhi, 1984.
15. Symons L: Agricultural Geography, Bell and Sons, London, 1972.
16. Wheeler, J.O. et.al.: Economic Geography, John Wiley, New York, 1995.
17. K.K.Khanna, Economic & Commercial Geography, 23, Daryaganj, New Delhi.
18. Prithwish Roy, Economic Geography: A study of resources, New Central Book Agency, Calcutta-700009.
19. K Siddhartha, Economic Geography (Theories, processes and patterns) Kisalaya Publication Pvt. Ltd. Patna-13.
20. B.Tandon & K.Tandon: Indian Economy, Tata Mc Graw Hill Publishing Company Ltd., New Delhi.
21. Leong & Morgan: Human and Economic Geography, Oxford University Press, Oxford, New York.

5

University of Jammu

M.A/M.Sc Geography 2nd Semester

Course No. 450

Title: Climatology

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in May 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

- | | |
|---|-----|
| 1.1. Nature and scope of climatology and its relationship with meteorology | (3) |
| 1.2. Composition, mass and the structure of atmosphere | (3) |
| 1.3. Insolation, Heat balance of the earth and distribution of temperature
(temporal, vertical and horizontal) | (3) |
| 1.4. Atmospheric moisture and precipitation | (3) |

UNIT-II

- | | |
|---|-----|
| 2.1. Tropical, temperate and high latitude weather systems | (3) |
| 2.2. Concept of air masses and atmospheric disturbances | (3) |
| 2.3. Ocean interaction-El Nino-Southern Oscillation (ENSO) and
La Nina, Monsoon winds, norwesters and cyclones | (3) |
| 2.4. Climate of India and its controls: Western disturbances | (3) |

UNIT-III

- | | |
|--|-----|
| 3.1. Climatic classification of Koppen's | (3) |
| 3.2. Climatic classification of Thornwaite. | (3) |
| 3.3. Modified Koppen's classification as proposed by Trewartha | (3) |
| 3.4. Major climates of the World- tropical, temperate, desert
and mountain climate. | (3) |

UNIT-IV

- | | |
|--|-----|
| 4.1. Climate and soil | (3) |
| 4.2. Climate and agriculture | (3) |
| 4.3. Climate and house types as well as human health | (3) |
| 4.4. Climate and vegetation | (3) |

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Alexander Singh
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Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Suggested Readings:

1. Barry, R.G. and Chorley P.J. Atmosphere, Weather and Climate, Routledge, London and New York, 1998.
2. Critchfield, J.H.: General Climatology, Prentice Hall, India, New Delhi, 1993.
3. Das, P.K., Monsoons, National Book Trust, New Delhi, 1987.
4. Fein, J.S. and Stephens, P.N., Monsoons, Wiley Inter science, 1987.
5. India Met. Deptt.: Climatological Tables of Observatories in India, Govt. of India, 1968.
6. Lal, D.S.: Climatology, Chitanya Publications, Allahabad, 1986.
7. Lydolph, P.E.: The Climate of the Earth, Rowman, 1985.
8. Menon, P.A.: Our Weather, N.B.T., New Delhi, 1989.
9. Peterson, S.: Introduction to Meteorology, Mc Graw Hill Book, London, 1969.
10. Robinson, P.J. and Henderson S.: Contemporary Climatology, Henlow, 1999.
11. Thompson, R.D. and Perry, A (ed.): Applied Climatology, Principles and Practice, Routledge, London, 1997.

University of JammuM.A/M.Sc Geography 2nd Semester

Course No. 451

Title: Economic Geography

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in May 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

- | | |
|--|-----|
| 1.1. Scope, content and recent trends in Economic Geography | (3) |
| 1.2. Relation of Economic Geography with economics and other branches of social sciences | (3) |
| 1.3. Approaches in Economic Geography | (3) |
| 1.4. Classification of economies, sector of economy | (3) |

UNIT-II

- | | |
|---|-----|
| 2.1. Factors of location of economic activities | (3) |
| 2.2. World major types of Agriculture | (3) |
| 2.3. Agricultural Regionalization of India | (3) |
| 2.4. Crop combination and diversification- Von Thunen model and its Modifications | (3) |

UNIT-III

- | | |
|--|-----|
| 3.1. Classification of Industries | (3) |
| 3.2. Theories of Industrial location- Weber, Losch, Hoover | (3) |
| 3.3. Case studies of selected Industries- Iron and steel, Automobiles, Sugar and Cotton textiles | (3) |
| 3.4. Typology of Markets | (3) |

UNIT-IV

- | | |
|---|-----|
| 4.1. Mode of transportation and transportation cost, accessibility and connectivity | (3) |
| 4.2. Economic development of India and regional disparities | (3) |
| 4.3. Impact of Green Revolution on Indian Economy | (3) |
| 4.4. Globalization and its impact on Indian economy | (3) |

Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

M. Anand
Sharma

University of Jammu

M.A/M.Sc Geography 2nd Semester

Course No. 452	Title: History of Geographical Thought
Credit: 4	Max Marks: 100
Duration of Examination: 3 hours	a) Semester Examination: 80
	b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in May 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

- 1.1. General character of Geography in the ancient period- contribution of Herodotus, Eratosthenes, Strabo and Ptolmy. (3)
- 1.2. Contribution of Indian Scholars (3)
- 1.3. Concept of Geography in the Medieval period- Dark Age for Science (3)
- 1.4. Arab Geographers. (3)

UNIT-II

- 2.1. Beginning of Modern Geography- Verenius, Cluverius and Kant. (3)
- 2.2. Contributions of Humboldt and Ritter. (3)
- 2.3. Development of Geography in Europe during the second half of the 19th century and first half of the 20th century. (3)
- 2.4. Darwin's impact on Geography. (3)

UNIT-III

- 3.1. Shifting view points in Geography during the second half of the 19th century (3)
- 3.2. Growth and Development of Dualism between Physical and Human Geography, Systematic and Regional Geography (3)
- 3.3. Determinism and Possibilism (3)
- 3.4. Different Concepts of Geography (3)
 - a) Study of Relationships
 - b) Environmental Determinism
 - c) Human Ecology

UNIT-IV

- 4.1. Geography as a Science of Distributions and as a science of areal differentiation (3)
- 4.2. Growth and Development of Systematic Geography (3)
- 4.3. Growth and Development of Regional Geography (3)
- 4.4. Time and Genesis in Geography (3)

Manuhas
S. Sharma

7

Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Suggested Readings:

1. Abler, Ronald: Adams, John S. Gould, Peter: Spatial Organization: The Geographer's View of the World, Prentice Hall, N.J., 1971.
2. Ali S.M.: The Geography of Puranas, Peoples Publishing House, Delhi, 1966.
3. Amedeo, Douglas: An Introduction to Scientific Reasoning in Geography, John Wiley, U.S.A. 1971.
4. Dikshit, R.D.(ed): The Art & Science of Geography Integrated Readings, Prentice Hall of India, New Delhi, 1994.
5. Hartshorne, R.: Perspectives on Nature of Geography, Rand McNally & Co., 1959.
6. Husain, M.: Evolution of Geographic Thought, Rawat Pub., Jaipur, 1984.
7. Johnston, R.J.: Philosophy and Human Geography, Edward Arnold, London, 1983.
8. Johnston, R.J.: The Future of Geography, Methuen, London, 1988.
9. Minshull, R.: The Changing Nature of Geography, Hutchinson University Library, London, 1970.

University of Jammu
M.A/M.Sc Geography 2nd Semester

Course No. 453

Title: Regional Planning and Development

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in May 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

- 1.1. Regional concept in Geography, Conceptual and theoretical framework (3)
- 1.2. Merits and limitations for application to regional planning and development (3)
- 1.3. Types of Region- Formal and functional, uniform and nodal, single purpose and composite region (3)
- 1.4. Methodologies and techniques of regional planning. (3)

UNIT-II

- 2.1. Physical regions, resource regions, regional division according to variations in the levels of socio-economic development (3)
- 2.2. Special purpose regions-river valley regions, metropolitan regions. (3)
- 2.3. Problem regions-hilly regions, drought prone regions (3)
- 2.4. Planning regions of India (3)

UNIT-III

- 3.1. Surveys for planning (3)
- 3.2. Role of GIS, Remote Sensing and GPS in planning (3)
- 3.3. Concept of multilevel planning, decentralized planning, people's participation in the planning process. (3)
- 3.4. Panchyati Raj System, role and relationship of Panchyati Raj Institutions. (3)

UNIT-IV

- 4.1. Regional development strategies- Concentration Vs Dispersal- Case studies for plans of developed and developing countries. (3)
- 4.2. Regional planning in India through five year plans (3)
- 4.3. Concept and indicators of development. (3)
- 4.4. Regional disparities and the level of socio-economic development of India. (3)

Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

M. Anand

Suggested Readings

1. Abler, R. et.al.: *Spatial Organization: The Geographer's View of the World*, Prentice Hall, Englewood Cliffs, N.J., 1971.
2. Bhat, L.S. *Regional Planning in India*, Statistical Publishing Society, Calcutta, 1973.
3. Bhat, L.S. et. al.: *Micro-Level Planning: A Case Study of Karnal Area, Haryana*, K.B. Publications, New Delhi, 1976.
4. Chorley, R.J. and Hagget, P.: *Models in Geography*, Methuen, London, 1967.
5. Christaller, W.: *Central Places in Southern Germany*, Translated by C.W. Baskin, Prentice Hall, Englewood Cliffs, New Jersey, 1966.
6. Friedmann, J. and Alonso, W.: *Regional Development Policy-A Case Study of Venezuela*, M.I.T. Press Cambridge, Mass, 1966.
7. Friedmann, J and Alonso, W.: *Regional Development and Planning A Reader*, M.I.T. Press, Cambridge, Mass 1967.
8. Glikson, Arthur: *Regional Planning and Development*, Netherlands Universities foundation for International Co-operation, London, 1955.
9. Gosal, G.S. and Krishan, G: *Regional Disparities in Levels of Socio-Economic Development in Punjab*, Vishal Publications, Kurukshetra, 1984.
10. Government of India, Planning Commission: *Third Five Year Plan, Chapter on Regional Imbalances in Development*, New Delhi, 1961.
11. Indian Council of Social Science Research : *Survey of Research in Geography*, Popular Prakashan, Bombay, 1972.
12. Johnson, E.A.J.: *The Organization of Space in Developing Countries*, Harvard University Press, Cambridge, 1970.
13. Kuklinski, A.R.(ed) : *Growth Poles and GrowthCentres in Regional Planning*, Mouton, The Hague, 1972.
14. Kundu, A and Raza, Moonis: *Indian Economy – The Regional Dimension*, Spectrum Publishers, New Delhi, 1982.
15. Losch, A: *The economics of Location*, University Press, Yale, New Haven, 1954.
16. Misra, R.P.: *Regional Planning: Concepts, Techniques and Policies*, University of Mysore, Mysore, 1969.
17. Misra, R.P. and Others (editors): *Regional Development Planning in India-A Strategy*, Institute of Development Studies, Mysore, 1974.
18. Mitra, A.: *Levels of Regional Development*, Census of India, Vol. I, Part IA(T) and (ii), New Delhi, 1965.
19. Myrdal, G.: *Economic Theory and Under-Development Regions*, Gerald Duckworth, London, 1957.
20. Nangia Sudesh, *Delhi Metropolitan Region* Rajesh Publication, Delhi, 1976.
21. Richardson, H.W.: *Regional Economics*, Weidenfeld and Nicolson, London, 1969.
22. Sundaram, K.V.(ed): *Geography and Planning, Essays in Honour of V.L.S. Prakasa Rao*, Concept Publishing Co., New Delhi, 1985.
23. Tarlok Singh *India's Development Experience*, Mc Millan New Delhi, India, 1974.
24. Raza Moonis (editor) *Regional Development* Heritage Publishers Delhi, 1988.
25. Mishra, R.P.et.al. *Multi-Level Planning* Heritage Publishers, Delhi, 1980.

University of Jammu

M.A/M.Sc Geography 2nd Semester

Course No. 454

Credit: 4

Duration of Examination: 3 hours

Title: Field Work (Physical Survey)

Max Marks: 100

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examination to be held in May 2009, 2010 and 2011

UNIT-I

Trace the prominent features of the area to be surveyed. Identify salient landform features of the selected area on the topographical sheet.

UNIT-II

Identify the landforms on the surface, while in the field. Also note the agents of erosion transportation and deposition associated with the landforms.

UNIT-III

Identify and classify the biodiversity in the area (flora and fauna)

UNIT-IV

Observe the relationship of various landforms, flora and fauna with land-use, settlement structure and life style of people.

UNIT-V

Based on observations of the above characteristics, prepare a field survey report. The report needs to be supplemented with maps, sketches, photographs etc.

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University of Jammu

M.A/M.Sc Geography 2nd Semester

Course No. 455

Title: Field Work (Instrumental Survey)

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examination to be held in May 2009, 2010 and 2011

UNIT-I

Importance of field instrument survey- scope, purpose and application of survey instruments.

UNIT-II

Prismatic Compass Survey: Introduction, advantages & disadvantages and procedure. Open and closed traverse, Elimination error method.

UNIT-III

Dumpy level: Introduction, advantages & disadvantages and procedure. Traverse survey, longitudinal and contour plan preparation.

UNIT-IV

Theodolite- Introduction, types, advantages & disadvantages and procedure. Horizontal and vertical (height measures), accessible and inaccessible methods, Introduction to automatic surveying instrument, Use of Brunton compass: Pantographs or Planimeter for- assessment of area.

Note for Paper Setter:

The question paper will contain two questions from each unit (total eight questions) and the candidate will be required to answer one question from each unit (total questions to be attempted, will be four) i.e. there will be internal choice within each unit.

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University of Jammu

M.A/M.Sc Geography 3rd Semester

Course No. 500

Title: Soil Geography

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in Dec 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

- | | |
|---|-----|
| 1.1. Nature, Scope and Definition of Soil Geography | (3) |
| 1.2. Soil forming factors and processes | (3) |
| 1.3. Soil components and Soil profile development | (3) |
| 1.4. Properties of Soil- Physical, Chemical and Biotic. | (3) |

UNIT-II

- | | |
|--|-----|
| 2.1. Soil Humus- Origin and its role in physical and chemical reactions | (3) |
| 2.2. Soil Organisms- Micro organisms, Earthworms, Termites, Mites, Ants, Plant roots, Algae and Fungi. | (3) |
| 2.3. Nitrogen cycle, Nitrogen fixation and Denitrification | (3) |
| 2.4. Soil water- Movements, balance and its use by crops. | (3) |

UNIT-III

- | | |
|---|-----|
| 3.1. Soil Pedogenic regimes- Podzolization, Laterization, Calcification and Gleezation. | (3) |
| 3.2. Taxonomic Classification of Soil (Seventh Approximation) | (3) |
| 3.3. Zonal, Azonal & Intrazonal soil, their characteristics and World pattern | (3) |
| 3.4. Soil Erosion, Degradation and Conservation | (3) |

UNIT-IV

- | | |
|--|-----|
| 4.1. Soil survey and its Utilization | (3) |
| 4.2. Land capability classification | (3) |
| 4.3. Soil and Water Management | (3) |
| 4.4. Sustainable development of soil resources with reference to India | (3) |

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Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Suggested Readings:

1. Ashman M.R & Puri G., Essential Soil Science, 2002, Blackwell Publishing Company, New Delhi.
2. Brady N.C., The Nature and Properties of Soil, 1990, Collier Macmillan Publisher, New Delhi.
3. Gerrar J., Fundamentals of Soils, 2000, Routledge-Taylor & Fancies Group, London.
4. Miller, Donahue & Shickluna, Soils-An Introduction to Soils and Plant Growth, 1987, Prentice Hall, New Jersey.
5. Miller.W.R & Donahu R.L., 1997, Soils in our Environment, Prentice Hall of India, New Delhi.
6. McKnight T.L., Physical Geography, 1984, Prentice Hall, New Jersey.
7. Singer J.M & Munus D.N., 1992, Soils- An Introduction, Mcmillam Publishing Company, New York.

University of Jammu

M.A/M.Sc Geography 3rd Semester

Course No. 501

Title: Geography of Rural Settlements

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in Dec 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

- 1.1. Definition, Nature and Scope of Settlement Geography (3)
- 1.2. Definition and Characteristics of Rural Settlements (3)
- 1.3. Evolution of Settlement studies in Geography (3)
- 1.4. Settling process and evolution of Rural Settlement (3)

UNIT-II

- 2.1. Pattern and type of Rural settlement (3)
- 2.2. Morphology of Rural settlement with special reference to Northern India (3)
- 2.3. Distribution of Rural Settlement with special reference to size and spacing (3)
- 2.4. Rural settlements in Germany and U.S.A. (3)

UNIT-III

- 3.1. Human settlement as system (3)
- 3.2. Rural-Urban Continuum (3)
- 3.3. Functional classification of Rural Settlements (3)
- 3.4. Rural Service centers, their nature and hierarchy (Central Place Theory) (3)

UNIT-IV

- 4.1. House Types and Field Patterns (3)
- 4.2. Rural house forms and types with special references to Gujar houses and houses in Loran Valley (3)
- 4.3. Origin, evolution, size and socio-spatial structure of villages in J&K, Punjab and Himachal Pradesh (3)
- 4.4. Rural Settlement Planning. (3)

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Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended:

1. Chisholm, Micheal; Rural Settlements and Land Use, Hutchinsomn University Library, London, 1970.
2. Gosh S., Introduction to Settlement Geography, Orient Longman, 1998.
3. Hudson, F.S: A Geography of Settlements, Macdonald &Evans, NewYork, 1976.
4. Mandal, R.B., Systems of Rural Settlements in Developing Countries, Concept Publishing Company,1989.
5. Mandal R.B., Introduction to Rural Settlement, Concept Publishing Company, 1979.
6. Mitra, A., Report on House Types and Village Settlement Patterns in India.
7. SinghR.Y., Geography of Settlement, Rawat Publication, New Delhi.
8. Singh, R.L.et.al: Rural Settlements in Monsoon Asia, NGSI, Varanasi, 1972.
9. Singh, R.L., Readings in Settlements Geography, Geographical Society of India, Varanasi, 1975.

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University of Jammu

M.A/M.Sc Geography 3rd Semester

Course No. 502

Title: Geography of Rural Development

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in ~~Dec~~ 2009, 2010 and 2011 - *December*

CONTRACT HOURS

UNIT-I- Introduction to Rural Development

- 1.1. Nature, Scope and Significance of Geography of Rural Development (3)
- 1.2. Socio-economic Structure of Rural India (3)
- 1.3. Approach to Rural Development of Rural India (3)
BADP (Backward Rural Development Programme)
CADP (Common Area Development Programme)
- 1.4. Poverty Alleviation Programme: Antyodya, Food for Work Programme (3)

UNIT-II- Dimensions of Rural Development

- 2.1. Role of Agriculture in Rural Economy (3)
(a) Landuse classification and landuse planning
(b) Water resource and role of irrigation and water management in the development of Rural India
- 2.2. Significance of livestock in Rural Economy (3)
- 2.3. Rural Industries and its importance for Rural Development (3)
- 2.4. Structure of human workforce, Need for development of Human resource through extension education (3)

UNIT-III- Social and Financial Dimensions of Rural Development

- 3.1. Tenural Structure and land reforms in India and its impact on rural development (3)
- 3.2. Role of Panchayati Raj Institution for Rural Development (3)
- 3.3. Co-operatives and Rural Development (3)
- 3.4. Rural Finances and NABARD (3)

UNIT-IV- Technology and Rural Development

- 4.1. Appropriate technology for the rural development (3)
- 4.2. Post-harvest technology (3)

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- 4.3. Farm technology in India- HYV Seeds, Chemical fertilizers (3)
4.4. Plant protection measures and soil conservation (3)

Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended:

1. Dey. S.K., Panchayati Raj: A Synthesis, Asia Publishing House, N. Delhi, 1961.
2. Kurukshetra- A Symposium, Publication Division-Ministry of Information and Broadcasting, Govt. of India Press, Nasik, 1967.
3. Mishra R.P., Rural Area Development, Concept Publishing House, N. Delhi, 1980.
4. Prashad K.N., India's Rural Problems, Concept Publishing Company, New Delhi, 1991.
5. Rao VLSP, Developmental Strategy for an Agricultural Region, I.D.S. University of Mysore, 1976.
6. Sharma S.K., Dynamics of Development, Concept Publishing House, New Delhi, 1977.
7. Swaminathan M.S., Science and Integrated Rural Development, Concept Publishing House, N. Delhi, 1987.

University of JammuM.A/M.Sc Geography 3rd Semester

Course No. 503

Title: Geographic Thought-II

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 80

b) Sessional Assessment: 20

Detailed Syllabus for examination to be held in Dec 2009, 2010 and 2011

UNIT-I

CONTRACT HOURS

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|--|-----|
| 1.1. Trends in Geographic Thought since the early Fifties | (3) |
| 1.2. The Quantitative Revolution- causes, features, effects and criticism | (3) |
| 1.3. Reactions to quantifications- Behavioral, Humanistic and Radical approaches | (3) |
| 1.4. New Geography as General spatial system theory | (3) |

UNIT-II

- | | |
|---|-----|
| 2.1. Recent trends in the study of Geomorphology | (3) |
| 2.2. Advances in Meteorology and Climatology since World War II | (3) |
| 2.3. Progress in Population Geography | (3) |
| 2.4. The diversity of Urban Geography | (3) |

UNIT-III

- | | |
|--|-----|
| 3.1. Development in the Geography of Rural Settlement | (3) |
| 3.2. Progress in Agricultural Geography | (3) |
| 3.3. Recent trends in Transport and Industrial Geography | (3) |
| 3.4. Progress in Historical Geography | (3) |

UNIT-IV

- | | |
|--|-----|
| 4.1. Continuity and change in American Geographical thought | (3) |
| 4.2. Trends in Soviet Geography | (3) |
| 4.3. Growth of Geographic research and teaching in India | (3) |
| 4.4. Post Modern Geography- Definitions, Concepts and Features | (3) |

Note for Paper setters:

The question paper shall contain two questions for each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

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Books Recommended:

1. Adhikari S., Fundamental of Geographical Thought, Chaitanya Publishing House, Allahabad, 1992.
2. Board, C and others, Progress in Geography, Vols. I-VII, Edward Arnold(publishers), New York, 1967.
3. Cohn, Saul B., Problems and Trends in American Geography, Basic Books Inc. Publishers, New York, 1967.
4. Chorley R.J., Hagget. P, Models in Geography, Methuen & Co. Ltd, London, 1979.
5. Hussain M., Evolution of Geographical Thought, Rawat Publication, New Delhi, 2001.
6. Minshull R., The Changing Nature of Geography, Hutchinson UniversityLibrary, London, 1970.
7. Peet R., Modern Geographical Thought, Blackwell Publishers, Oxford, 2001.
8. Soja W.E., Post Modern Geography, Rawat Publication, Jaipur, 1997.

University of Jammu

M.A/M.Sc Geography 3rd Semester

Course No. 504

Title: Geological Maps, Minerals
Rocks and Soil Analysis
(Practical)

Credit: 4

Max Marks: 100

Duration of Examination: 3 hours

a) Semester Examination: 50

b) Sessional Assessment: 50

Detailed Syllabus for examination to be held in Dec 2009, 2010 and 2011

CONTRACT HOURS

UNIT-I- Rocks

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1.1. Definition and Types of Rocks

1.2. Study of Physical characteristics, chemical composition and
Uses of the following rocks- Granite, Basalt, Sandstone, Limestone,
Conglomerate, Shale, Quartzite, Slate and Gneiss

UNIT-II- Minerals

(12)

2.1. Definition and Physical properties of Minerals

2.2. Characteristics of Calcites, Feldspar, Gypsum, Mica, Quartz & Dolomite

UNIT-III- Soil Analysis

(12)

3.1. Soil Textural Analysis

3.2. Determination of pH values and Bulk Density

UNIT-IV- Drawing and Interpretation of Geological Maps

(12)

4.1. Drawing of Cross Sections, Determination and Interpretation of Dip
and Strike

Note:

1. This course is purely a practical course to be studied in the laboratory
2. Students studying this course are required to prepare a practical record file and a Map book.
3. The Semester and Sessional Examination comprise of 50 marks each out of which 36 marks are allotted for written examination from the syllabus mentioned above, 9 marks are allotted for viva-voci and 5 marks are allotted for practical record file.
4. The question paper for the Sessional examination shall be set by the course teacher who shall be the internal examiner while the question paper for the Semester examination shall be set jointly by the external and internal examiners.

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5. The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all selecting one question from each unit.

Suggested Readings:

1. Brady N.C., The Nature and Properties of Soil, 1990, Collier Macmillan Publisher, New Delhi.
2. R.L. Singh & Rane P.B.Singh, Elements of Practical Geography, Kalyani Publishers, New Delhi, 2004
3. John I Platt and John Challinor, Simple Geological Structures, Thomas Murby & Co. London.
4. John Farndon, The Practical Encyclopedia of Rocks & Minerals, Lorenz Books, London.
5. William H. Matheus, Geology Made Simple, Allen and Company Ltd., London

University of Jammu

M.A/M.Sc Geography 3rd Semester

Course No. 505	Title: Field-Work-Socio-Economic (Practical)
Credit: 4	Max Marks: 100
Duration of Examination: 3 hours	a) Semester Examination: 50
	b) Sessional Assessment: 50

Detailed Syllabus for examination to be held in Dec 2009, 2010 and 2011

CONTRACT HOURS

UNIT-I- Graphical Representation	12
1.1. Preparation of a Topographical Map of 1:50,000 or 1:25,000 Scale to show the settlements selected in a regional setting.	
UNIT-II- Preparation of Book	12
2.1. Prepare a question book/ questionnaire to collect Demographic Social and Economic data to study the Profile of the study area and temporal change in the	
UNIT-III- Field Work	12
3.1. Conduct a socio-economic field work of a selected area supplemented by personal observations and investigations.	
UNIT-IV- Preparation of Report	
4.1. Based on the results of the land use and socio-economic outputs, prepare a critical field study report. Supplement the report with the help of photographs, diagrams and maps.	

Note

1. The DAC shall select one teacher as Course-coordinator for the conduct of the course.
2. The DAC in consultation of the Course Co-coordinator shall select the site/village for the socio-economic survey
3. The Course Co-coordinator shall allot different topics to the students to write reports.
4. The internal examination shall comprise of 50 marks out of which the viva voce shall comprise of 30 marks, attendance of 10 marks and general conduct of the students of 10 marks.
5. The external examination shall be conducted jointly by the course coordinator and the external examination shall comprise of 50 marks.

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Books Recommended:

1. Basotia G.R. & Sharma K.K., Research Methodology, 2002, Mangal Deep Publication, Jaipur.
2. Gosal G.S., Fourth Survey of Research in Geography, 1999, Manak Pub. Pvt. Lt., New Delhi.
3. Khanzod. V.V, Research Methodology Techniques and Trends, 1995 Aph Publishing Co., New Delhi.
4. Mishra H.N. & Singh V.P., Research Methodology in Geography, 1998, Rawat Publication, New Delhi.
5. Nachmias D & Nachmias C., Research Methodology in Social Science, 1981, St. Martin's Press, New York.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 550

Credit: 4

Duration of Examination : 3 hours

Title: Agricultural Geography

Max. Marks: 100

a) Semester Examination 80

b) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

CONTRACT HOURS

UNIT - I

- 1.1 Nature, Scope and Significance of Agricultural Geography (3)
- 1.2 Approaches to the study of Agricultural Geography (3)
 - a. Commodity
 - b. Systematic
 - c. Regional
- 1.3 Source of Agricultural data (3)
- 1.4 Origin and Development of Agriculture (3)

UNIT - II

- 2.1 Factors affecting the Agricultural land use (3)
- 2.2 Agricultural concepts and their measurements (3)
 - a. Cropping Pattern
 - b. Crop Concentration
 - c. Cropping Intensity
 - d. Crop Diversification
- 2.3 Crop combination, Agricultural efficiency and productivity (3)
- 2.4 Green Revolution - Its impact and consequences (3)

UNIT-III

- 3.1 Von Thunen's model of Agricultural location and its modification (3)
- 3.2 Land-use classification: nine fold. (3)
- 3.3 Regional pattern of agricultural productivity in India (3)
- 3.4 Agricultural development in different financial years (3)

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UNIT-IV

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|-----|--|-----|
| 4.1 | Surface Ocean Currents | (3) |
| 4.2 | Currents of Atlantic, Pacific and Indian Ocean | (3) |
| 4.3 | Oceans as a source of resource for man | (3) |
| 4.4 | Ocean as a Biogeochemical cycle & Global water cycle | (3) |

Note for paper setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended

1. Lal D.S., Oceanography, 2002, Sharda Pustak Bhawan, Allahabad.
2. Pinet P.R., Invitation to Oceanography, 2000, Jones and Barlett Publishers, U.S.A.
3. Sharma R.C., Vatal M., Oceanography for Geographers, 2001, Chaitanya Publishing House, Allahabad.
4. Sidharta K., Oceanography, 1999, Kalyana Publications, New Delhi.
5. Singh.S., 2008, Oceanography, Prayag Pustak Bhawan, Allahabad.
6. Tomezak M & Godfrey J.S., Regional Oceanography, 2003, Daya Publishing House, Delhi.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 551

Title: Oceanography

Credit: 4

Max. Marks: 100

Duration of Examination : 3 hours

a) Semester Examination 80

c) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

CONTRACT HOURS

UNIT - I

- 1.1 Nature and Scope of Oceanography (3)
- 1.2 Major branches of Oceanography (3)
- 1.3 Historical background of the Development of Oceanography (3)
- 1.4 Morphology of Ocean Bottom – Continental Shelf, continental Slope, (3)
Submarine canyons, continental rise, deep sea trenches Abyssal hill

UNIT - II

- 2.1 Bottom relief of the Oceans-Atlantic, Pacific & Indian (3)
- 2.2 Physical and Chemical properties of Sea water (3)
- 2.3 Temperature distribution – Horizontal and Vertical (3)
- 2.4 Salinity of Ocean water & Thermohaline (3)

UNIT-III

- 3.1 Ocean Deposits – Types, source and nature of deposits (3)
- 3.2 Coral reefs-Origin of Coral reefs, Views of Darwin, Murrey & Daly (3)
- 3.3 Tides-Characteristics and Origin, Equilibrium & Dynamic model (3)
- 3.4 Waves and Tsunami (3)

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UNIT-IV

- 4.1 Basis of Whittlessey's classification of Agriculture of the World (3)
4.2 Agricultural regionalisation of India (3)
4.3 Characteristics of Indian Agricultural (3)
4.4 Drought and food security and food aid programme (3)

Note for paper setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended

1. Hussain M., Agricultural Geography, Inter India Publishing, Delhi.
2. Singh, Jasbir and Dhillon, S.S., Agricultural Geography, Tata McGraw Hill, New Delhi, 1991.
3. Singh, Jasbir, Agricultural Atlas of India – A Geographical Analysis, Vishal Publishers, Kurukshetra, 1974.
4. Symons, L., Agricultural Geography, G.Bells and Sons, London, 1967.
5. Saur, Carl, Agricultural Origins and Dispersal, American Geographical Society, New York.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 554

Credit: 4

Duration of Examination: 3 hours

Title: Dissertation

Max. Marks: 100

a) Semester Examination 80

d) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

NOTE

1. The course on Dissertation shall comprise 100 marks (External Viva-Voce 50 marks and Internal Viva-Voce 50 marks).
2. The Break-up of marks for Internal Viva-Voce shall be as follows:
 1. Subject Matter : 10 marks
 2. Methodology : 10 marks
 3. Presentation : 10 marks
 4. Attendance : 10 marks
 5. Record : 10 marks
3. The Break-up of marks for External Viva-Voce shall be as follows:
 1. Subject Matter : 20 marks
 2. Viva-Voce : 20 marks
 3. Record : 10 marks
4. There shall be no theory examination either in external or in internal.
5. Candidates shall be examined internally by the course co-ordinator/teacher.
6. Candidates shall be examined externally by an examiner from a panel submitted by HOD for approval from the Competent Authority.

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Books Recommended

1. Basotia G.R.& Sharma K.K., Research Methodology, 2002, Mangal Deep Publication, Jaipur.
2. Gosal G.S., Fourth Survey of Research in Geography, 1999, Manak Pub. Pvt. Ltd., New Delhi.
3. Khanzod V.V., Research Methodology Techniques and Trends, 1995, Aph. Publishing Co., New Delhi.
4. Mishra H.N. & Singh V.P., Research Methodology in Geography, 1998, Rawat Publication, New Delhi.
5. Nachmias D & Nachmias C., Research Methodology in Social Science, 1981, St. Martin's Press, New York.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 555

Credit: 4

Duration of Examination : 3 hours

Title: Fluvial Geomorphology

Max. Marks: 100

a) Semester Examination 80

e) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

CONTRACT HOURS

UNIT – I

- | | | |
|-----|--|-----|
| 1.1 | Hydrological Cycle & Sub Cycle: Principal Components
Relationship with rainfall and river flow. | (3) |
| 1.2 | Drainage pattern evolution, limits of drainage development
and channel changes with time. | (3) |
| 1.3 | Drainage Basins – Forms, Process – A geomorphic unit. | (3) |
| 1.4 | Drainage Basin – Morphometry & Morphometric interrelations. | (3) |

UNIT – II

- | | | |
|-----|---|-----|
| 2.1 | Flow of Water: Types, Resistance, Regimes, Mechanics and
Discrimination. | (3) |
| 2.2 | Forces acting in Channels: Competent velocity, life force
Critical force. | (3) |
| 2.3 | Threshold of erosion, Sediment load, sediment transport and
Sediment deposition of streams | (3) |
| 2.4 | Equilibrium Profile-Straight, Meandering and Braided | (3) |

UNIT-III

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|-----|--|-----|
| 3.1 | Hydraulic Geometry: Seasonal and Downstream & at a station | (3) |
| 3.2 | Shape adjustment during flood & Channel Thalweg | (3) |
| 3.3 | Causes of Concavity | (3) |
| 3.4 | Channel Patterns | (3) |

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UNIT-IV

- 4.1 Applied Fluvial Geomorphology
- 4.2 Fluvial deposition landforms and the human adjustments (3)
(Case study) (3)
- 4.3 Reservoirs and their effects on fluvial system (3)
- 4.4 Remote Sensing & GIS application on fluvial system (3)

Note for paper setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended

- 1. Chorley R.J., (ed): Introduction to Fluvial Processes, Methuen & Co. 1973.
- 2. Dury G.H. (ed): Rivers and River Terraces, Macmillan, London, 1970.
- 3. Gregory K.J: River Channel Changes, John Willey & Sons, New York, 1977.
- 4. Gregory K.J. and Walling D.E: Drainage Basin-Forms and Processes. A Geomorphological Approach, John Willey & Sons, New York.
- 5. Knighton D., Fluvial Forms and Processes, 1984, Richard Clay Ltd., Bungey, Australia.
- 6. Leopold L.B., Woolman M.G. and Miller J.P: Fluvial Processes in Geomorphology, Freeman, San Francisco, 1964.
- 7. Morisows, Marie: Streams-Their Dynamics and Morphology, McGraw Hill, 1968.
- 8. Schumm, Stanley: River Morphology, Benchmark Papers in Geology (ed) Downden, Hutchinson & Sons Inc., Stroudsburg, Pensylvanis, USA, 1972.
- 9. Schumm, Stanley: Thefluvial System, John Wiley & Sons, New York, 1977.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 556

Credit: 4

Duration of Examination : 3 hours

Title: Glacial Geomorphology

Max. Marks: 100

a) Semester Examination 80

f) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

CONTRACT HOURS

UNIT - I

- 1.1 Ice Ages and World Glaciation: Causes of Ice-Ages (3)
- 1.2 Pleistocene Glaciation: Onset, Retreat, direct & indirect effect (3)
- 1.3 Glacier Regimes, Mass Balance & Response to Climatic changes (3)
- 1.4 Glacier Ice, Flow and internal deformation: Physical and the Chemical properties (3)

UNIT - II

- 2.1 Erosional Processes: Glacial Erosion, Ice and Melt water (3)
- 2.2 Mechanical and Chemical Processes of Erosion (3)
- 2.3 Development of Erosional landforms: Morphodynamics (3)
Features at or inside glacier margins
- 2.4 Glacial Thermafrost, Supraglacial, Subglacial, Englacial and Basal (3)

UNIT-III

- 3.1 Depositional Processes: Stratified, Non-Stratified and drifts & forms (3)
- 3.2 Morphodynamics and forms of Moraines (3)
- 3.3 Glacio-fluvial and Glacio-lacustrine Environment (3)
- 3.4 Pleistocene glaciations in South Asia-Hazards & glacial surges in Glacial environment & glacier dam bursts. (3)

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UNIT-IV

- 4.1 Periglacial Processes: Frozen ground phenomena, Identical Glaciation, depth variation and thermal properties (3)
- 4.2 Classification and distribution-Ground Ice (3)
- 4.3 Types and Morphodynamics of Periglacial Processes: Mechanism of frost action, Mass wasting & Nivation (3)
- 4.4 Periglacial and Mass wasting landforms, frost action & landforms Adaptation of human beings in Periglacial environment (3)

Note for paper setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended

1. Andrews J.T.(1975): Glacial Systems: An approach to Glaciers and their Environments, California, Wardsworth Publishing Company, pp-1-191.
2. Butzer K.W. (1976): Geomorphology form the Earth, New York, Harper and Row, pp 1-463.
3. Embleton C and King C.A.M. (1975): Glacial Geomorphology, London, Edward Arnold, pp 1-573.
4. King C.A.M.(1978): Techniques in Geomorphology, London, Edward Arnold, pp 1-341.
5. Peterson W.S.B.(1969): The Physics of Glaciers, Canada, Porgamen Press, Toronto, pp 1-250.
6. Sudgen D.E. and John B.S.(1976): Glaciers and Landscape, London, Edward Arnold Ltd pp 1-376.
7. Tricart J (1969): Geomorphology of Cold Environment, London, McMillan, pp 1-120.
8. EYKSN (1984): Glacial and Fluvial Geomorphology of Western Himalayas, New York, Pergamon Press, pp 1-409.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 559

Credit: 4

Duration of Examination : 3 hours

Title: Geography of Tourism

Max. Marks: 100

a) Semester Examination 80

g) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

CONTRACT HOURS

UNIT - I

- 1.1 Geography of Tourism: Definition, Nature and Scope (3)
- 1.2 Locational Dimensions: Physical, Cultural, Historical and Economic (3)
- 1.3 Evolution of studies in Tourism Geography (3)
- 1.4 Significance of the study of Tourism Geography (3)

UNIT - II

- 2.1 Elements of Tourism (3)
- 2.2 Types and Classification of Tourism (3)
- 2.3 Factors influencing Tourism-Natural, Socio-cultural, Economic and Historical (3)
- 2.4 Tourism as an Industry (3)

UNIT-III

- 3.1 Infrastructure and Support System for Tourism (3)
- 3.2 Tourism Circuits-Short and long duration (3)
- 3.3 Role of Travel agencies (3)
- 3.4 The Hotel Industry (3)

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UNIT-IV

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|-----|---|-----|
| 4.1 | Classification and Types of Indian Tourism | (3) |
| 4.2 | Tourism Destinations in Kashmir, Garhwal, Goa and Rajasthan | (3) |
| 4.3 | Impact of Tourism – Physical, Economic and Social | (3) |
| 4.4 | Environmental Laws and Tourism | (3) |

Note for paper setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended

1. Dhar P. Development of Tourism and Travel Industry, 1997, Kanishka Publishers, New Delhi.
2. Negi J., Tourism and Travel, 1990, Gitanjali Publishing, New Delhi.
3. Sharma R.C., Geography of Tourism, 2002, Rajat Publication, New Delhi.
4. Singh P., Dynamics of Modern Tourism, 1998 Kanishka Publishers, New Delhi.
5. Negi J., Grading and Classification of Hotels, Tourism, Resorts and Restaurants, 2003, Kanishka Publishers, New Delhi.

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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 560

Credit: 4

Duration of Examination : 3 hours

Title: Population Geography of the
Developed and Developing Countries.

Max. Marks: 100

a) Semester Examination 80
b) Sessional Assessment 20

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

CONTRACT HOURS

UNIT - I

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|-----|---|-----|
| 1.1 | General Comparative study of Population Characteristics of developed and developing countries | (4) |
| 1.2 | Distribution and Density of Population in developed and Developing countries | (4) |
| 1.3 | Vital Rates in developed and developing countries | (4) |
| 1.4 | Growth of Population in developed and developing countries | (4) |

UNIT - II

- | | | |
|-----|---|-----|
| 2.1 | Migration's in developed and developing countries | (4) |
| 2.2 | Age structure in developed and developing countries | (4) |
| 2.3 | Sex Ratio in developed and developing countries | (4) |
| 2.4 | Literacy and Occupational Structure in developed and Developing countries | (4) |

UNIT-III

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|-----|--|-----|
| 3.1 | Urbanization in developed and developing countries | (4) |
| 3.2 | Demographic Transition in developed and developing countries | (4) |
| 3.3 | Population as problem in context to shrinking resource base | (4) |
| 3.4 | Population and Environmental Degradation | (4) |

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UNIT-IV


4.1	Marxian Theory of Population – concept, features and criticism	(4)
4.2	Malthusian Theory of Population – concept, features and criticism	(4)
4.3	Population Policy of China	(4)
4.4	Population Policy of India	(4)

Note for paper setters:

The question paper shall contain two questions from each unit. Candidates shall be required to attempt four questions in all, selecting one question from each unit. All questions carry equal marks.

Books Recommended

1. Bose, A: Patterns of Population Change in India, 1951-61, Allied Publishers, Bombay, 1967.
2. Beaujeu, Garnier, J: Geography of Population, Longmans, London, 1966
3. Clarke, John J: Population Geography and the Developing Countries, Pergamon Press, Oxford, 1971.
4. Demko G.J., Rose H.M. and Schnell G.A: Population Geography, A Reader, McGraw Hill Book Co., New York, 1970.
5. Kosinski, Leszek: The Population of Europe, Longman, London, 1970.
6. National Academy of Sciences: In Search of Population Policy, Views from the Developing World, Washington D.C. 1974.
7. Trewartha G.T: The Less Developed Realm-A Population Geography, McGraw Hill, New York, 1972.
8. Trewartha G.T: (ed) The More Developed Realm – A Geography of its Population, Pergamon Press, Oxford.


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UNIVERSITY OF JAMMU

M.A./M.Sc. Geography 4th Semester

Course No. 561

Title: Field Study Tour

Credit: 4

Max. Marks: 100

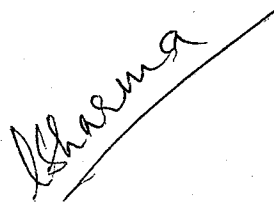
a) External viva-voce 50

c) Internal viva-voce 50

Detailed syllabus for examination to be held in May 2010, 2011 and 2012.

NOTE

1. The Field Study Tour shall be compulsory for all the IVth Semester Students.
2. The Field Study Tour shall be conducted at the end of the IIIrd Semester Examinations and before the beginning of the IVth Semester class work.
3. The Departmental Affairs Committee shall appoint a Course Co-ordinator for the conduct of the tour.
4. The Course Coordinator in consultation with the Departmental Affairs Committee shall choose any of the following Tour Circuits-
 1. Delhi-Dehradun-Rishikesh-Kedarnath-Badrinath-Govindghat-Ranikhet-Nanital-Kathgodam-Jammu.
 2. Kathgodam-Nanital-Almora-Kosambi-Pithoragarh-Pantnagar-Jammu
 3. Gorakhpur-Raxau-Birganj-Kathmandu-Jammu
 4. Siliguri-New Jalpaiguri-Darjeeling-Gangtok-Gauhati-Shillong-Cherrapunji-Jammu.
 5. Lucknow-Banaras-Gaya-Allahabad-Jammu.
 6. Delhi-Bhopal-Nagpur-Aurangabad-Ahemdabad-Baroda-Jamnagar-Dwarika-Bapi-Jammu.
 7. Jaipur-Ajmer-Jodhpur-Udaipur-Jaisalmer-Kota-ehtorgarh-Mt Abu-Jammu.
 8. Delhi-Secunderabad-Chennai-Kanyakumari-Kodaikanal-Banglore-Trivandrum-Cochin-Coimbatore-Ooty-Mysore-Goa-Mumbai-Swai Madhopur-Jaipur-Ajmer-Jammu.
5. The Field Study Tour shall be evaluated both externally (50 marks) and internally (50 marks).
6. The Course Coordinator shall act as the internal examiner.



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7. The external examiner shall be appointed from a panel of examiners duly approved by the Competent Authority.

8. The candidates shall be required to write a tour report covering the following aspects:

- 1. Physiography
- 2. Human Resources and Settlements
- 3. Urban Structure and Process
- 4. Industrialisation
- 5. Transport Connectivity

9. The Break up of marks for internal viva-voce shall be as follows:

- 1. Subject Matter 10 marks
- 2. Presentation 10 marks
- 3. Attendance 10 marks
- 4. Discipline 10 marks
- 5. General Behaviour 10 marks

10. The Break up of marks for external viva-voce shall be as follows:

- 1. Subject Matter
- 2. Viva-voce
- 3. Record

M. S. Srinivasan

Prasanna

M. S. Srinivasan