



UNIVERSITY OF JAMMU

NOTIFICATION (18/March/Adp/97)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the revised Syllabi and Courses of Study in the subject of Geography of M.A./M.Sc. in the Master Degree Programme for 1st to IV Semesters under the Choice Based Credit System (through regular mode) in the main campus for the examinations to be held in the years as per the details given below:-

Semester	Course Code	Course Title	For the examination to be held in the year	% age of Change
I	PSGETC101	Geomorphology	Dec. 2018, 2019 and 2020	10%
	PSGETC102	Biogeography	Dec. 2018, 2019 and 2020	No Change
	PSGETC103	Indian Regional Geography	Dec. 2018, 2019 and 2020	10%
	PSGETC104	Population Geography	Dec. 2018, 2019 and 2020	No Change
	PSGELC105	Quantitative Techniques in Geography	Dec. 2018, 2019 and 2020	No Change
II	PSGELC106	Cartography	Dec. 2018, 2019 and 2020	10 %
	PSGETC201	Climatology	May 2019, 2020 and 2021	No Change
	PSGETC202	Economic Geography	May 2019, 2020 and 2021	No Change
	PSGETC203	History of Geographical Thought	May 2019, 2020 and 2021	No Change
	PSGETC204	Regional Development & Planning	May 2019, 2020 and 2021	10%
	PSGETC205	Geography of Rural Settlements	May 2019, 2020 and 2021	No Change
	PSGELC206	Physical Survey and Morphometric Analysis	May 2019, 2020 and 2021	10%
	PSGETC301	Oceanography	Dec. 2019, 2020 and 2021	No Change
	PSGETC302	Political Geography	Dec. 2019, 2020 and 2021	100%
	PSGETC303	Geography of Rural Development	Dec. 2019, 2020 and 2021	No Change
IV	PSGELC304	Remote Sensing and GIS	Dec. 2019, 2020 and 2021	No Change
	PSGELC305	Field Work Socio- Economics Survey	Dec. 2019, 2020 and 2021	10%
	PSGETO306	**Physical Geography	Dec. 2019, 2020 and 2021	No Change
	PSGETC401	World Regional Geography	May 2020, 2021 and 2022	100%
	PSGETC402	Urban Geography	May 2020, 2021 and 2022	100%
	PSGETE403	Agriculture Geography •	May 2020, 2021 and 2022	No Change
		OR		
	PSGETE404	Environmental Planning & Management	May 2020, 2021 and 2022	No Change
		OR		
	PSGETE405	Gender Geography	May 2020, 2021 and 2022	No Change
	PSGETE406	Tourism Geography	May 2020, 2021 and 2022	No Change
	PSGEDC407	Dissertation	May 2020, 2021 and 2022	No Change
	PSGELC408	Tour Report	May 2020, 2021 and 2022	No Change
	PSGELC409	Application of Remote Sensing and GIS in Geography	May 2020, 2021 and 2022	No Change
	PSGETO410	**Human Geography	May 2020, 2021 and 2022	No Change

- If the change in the Syllabi and Courses of Study is less than 25%, no alternative question papers be set.
- If the change is 25% and above but below 50%, alternative question papers be set for one year.
- If the change is 50% and above or whole scheme is changed, alternative question papers be set for two years.

Sd/-

DEAN ACADEMIC AFFAIRS

No. F. Acad/11/18/263-18377
Dated: 22-03-2018.

Copy for information and necessary action to:

- Special Secretary to the Vice Chancellor, University of Jammu for the kind information of the
Worthy Vice-Chancellor please
- Sr. P.A. to the Dean Academic Affairs/Dean Research Studies
- Sr. P.A. to the Registrar/Controller of Examinations
- Dean, Faculty of Science
- MOD/Convener, Board of Studies in Geography
- All members of the Board of Studies
- C.A. to the Controller of Examinations
- I/c Director, Computer Centre, University of Jammu
- Asst. Registrar (Conf./Exams. PG/Int./Pub.)
- Incharge, University Website for necessary action please.

Assistant Registrar (Academic)

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UNIVERSITY OF JAMMU

COURSE STRUCTURE FOR MASTERS DEGREE PROGRAMME IN GEOGRAPHY

Following Courses of Study are prescribed for 1st to 4th Semesters Master Degree (PG) Programme under CBCS in the of Geography (Session 2018,2019,2020)

Course Code	Course Title	Credits	Nature of Course	Percentage of change
PSGETC101	GEOMORPHOLOGY	4	Theory	10% Change
PSGETC102	BIOGEOGRAPHY	4	Theory	No Change
PSGETC103	INDIA: REGIONAL GEOGRAPHY	4	Theory	10% Change
PSGETC104	POPULATION GEOGRAPHY	4	Theory	No Change
PSGELC105	QUANTITATIVE TECHNIQUES IN GEOGRAPHY	4	Laboratory	No Change
PSGELC106	CARTOGRAPHY	4	Laboratory	10% Change
PSGETC201	CLIMATOLOGY	4	Theory	No Change
PSGETC202	ECONOMIC GEOGRAPHY	4	Theory	No Change
PSGETC203	HISTORY OF GEOGRAPHICAL THOUGHT	4	Theory	No Change
PSGETC204	REGIONAL DEVELOPMENT & PLANNING	4	Theory	10% Change
PSGETC205	GEOGRAPHY OF RURAL SETTLEMENTS	4	Theory	No Change
PSGELC206	PHYSICAL SURVEY AND MORPHOMETRIC ANALYSIS	4	Field Work & Laboratory	Practical 10% change
PSGETC301	OCEANOGRAPHY	4	Theory	No Change
PSGETC302	POLITICAL GEOGRAPHY	4	Theory	New course 100% change
PSGETC303	GEOGRAPHY OF RURAL DEVELOPMENT	4	Theory	No Change
PSGELC304	REMOTE SENSING AND GIS	4	Laboratory	No Change
PSGELC305	FIELD WORK SOCIO-ECONOMIC SURVEY	4	Field Work & Laboratory	10% change
PSGETO306	**PHYSICAL GEOGRAPHY	4	Theory	No Change
PSGETC401	WORLD REGIONAL GEOGRAPHY	4	Theory	New course 100% change
PSGETC402	URBAN GEOGRAPHY		Theory	New course 100% change
PSGETE403	AGRICULTURE GEOGRAPHY OR	4	Theory	No change
PSGETE404	ENVIRONMENTAL PLANNING & MANAGEMENT OR	4	Theory	No change
PSGETE405	GENDER GEOGRAPHY OR	4	Theory	No change
PSGETE406	TOURISM GEOGRAPHY	4	Theory	No change
PSGEDC407	DISSERTATION	4	Project based course leading to dissertation	No Change
PSGELC408	TOUR REPORT	2	Field Work & Laboratory	No Change
PSGELC409	APPLICATION OF REMOTE SENSING AND GIS IN GEOGRAPHY	2	Laboratory	No Change
PSGETO410	**HUMAN GEOGRAPHY	4	Theory	No Change
	Total credit	104		

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Shahid Maam

Course Code: PSGETC101

Credit: 4

Duration of Examination: 3 Hours

Title: Geomorphology

Max. Marks : 100

(a) Minor Test I: 20

(b) Minor Test II: 20

(c) Major Test: 60

Detailed syllabus for examination to be held in December 2018, 2019 and 2020.

Unit I

Contact Hours

1.1 Fundamental Concepts in Geomorphology (3)

1.2 Development of Geomorphic Thought: Classical and Modern, Catastrophism vs. Uniformitarianism. (3)

1.3 Geosynclines and Mountain Building (3)

1.4 Geomorphic ideas of Davis and Penck (3)

Unit II

2.1 Concept of Isostasy (3)

2.2 Theories of Continental Drift and Plate Tectonics (3)

2.3 Earth Movements: types, causes and effects. (3)

2.4 Landforms evolution by seismic effects and Volcanism (3)

Unit III

3.1 Weathering and Mass Movement (3)

3.2 Types of Streams and Drainage Pattern (3)

3.3 Karst and Marine Processes and associated landforms (3)

3.4 Fluvial, Glacial and Aeolian Processes and associated landforms (3)

Unit IV

4.1 Slope evolution and Replacement Model (3)

4.2 Soil formation and types (3)

4.3 Geomorphic hazards- Floods, Earthquake and Tsunami (3)

4.4 Applied Geomorphology (Urbanization, Environment and Mineral exploration) (3)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

Shabir *Meenu*

- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

1. Chorley, R.J., Spatial Analysis in Geomorphology, Methuen, London, 1972.
2. Cooke, R.U. and Doornkamp J.C., Geomorphology in Environmental Management: an Introduction, Clarendon Press, Oxford, 1974.
3. Dury, G.H., The Face of Earth, Penduin Harmondsworth, 1959.
4. Fairbridge, R.W., Encyclopedia of Geomorphology, New York, 1968.
5. Goudie, A., The Nature of the Environment, Oxford and Blackwell, London, 1993.
6. Gerner, H.F., the origin of Landscape: A Synthesis of Geomorphology, Oxford University Press, London 1974.
7. Mitchell, C.W., Terrain Evaluation, Longman, London, 1973.
8. Ollier, C.D., Weathering, Longman, London, 1979.
9. Pitty, A.F., Introduction to Geomorphology, Methuen, London, 1971.
10. Stoddart, D.R., (ed) Process and Form in Geomorphology, Routledge, New York, 1996.
11. Skinner, B.J. and Porter, S.C., the Dynamic Earth, John Wiley, New York, 1995.
12. Sparks, B.W., Geomorphology, Longman, London, 1960.
13. Sharma, H.S., (ed) Perspectives in Geomorphology, Concept, New Delhi, 1980.
14. Singh, S., Geomorphology, Prayag Publication, Allahabad, 1998.
15. Thornbury, W.E., Principles of Geomorphology, John Wiley, New York, 1960.

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UNIVERSITY OF JAMMU

M.A/M.Sc Geography Ist Semester

Course Code: PGSETC 102

Titles: Biogeography

Credit: 4

Duration of Examination: 3 Hours

Max. Marks: 100

(a) Minor Test I : 20

(b) Minor Test II : 20

(c) Major Test : 60

Detailed syllabus for examination to be held in December 2018, 2019 and 2020

Contact Hours

Unit I

- 1.1 Nature, Scope, Significance and Development of Bio-Geography (3)
- 1.2. Biosphere: World of living things including plant and animal life (3)
- 1.3. Bio-Geographical cycles: Carbon, Oxygen and Hydrological cycle (3)
- 1.4. Concept of Ecosystem (Mountain and Aquatic Ecosystem) (3)

Unit II

- 2.1 Evolution of life, Lamarck and Darwin's Theory (3)
- 2.2 Factors influencing growth and distribution of plants in the world (3)
- 2.3 Phytogeography of the world: Tropical Rainforests and Temperate Deciduous forests. (3)
- 2.4 Plant Succession: Meaning and concept of primary and secondary successions with examples. (3)

Unit III

- 3.1 Plant and their Classification, Taxonomic Classification, Ecological Classification, Raunkiaer's and Grime's Classification (3)
- 3.2 Evolution, Dispersal and Migration of animals. (3)
- 3.3 Zoogeographical realms of the world. (3)
- 3.4 Remote Sensing in Bio-Geography (3)

Unit IV

- 4.1 National Parks, Wild life Sanctuaries and Bio Reserves in India (3)
- 4.2 National Forest Policy of India (3)
- 4.3 Human Impact on Natural Ecosystem. (3)
- 4.4 Conservation measures of Biosphere Reserve (3)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
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Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

(iv) The major test will have four questions each of 15 marks.

(v) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.

(vi) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

1. Cox. C.D. and Moore P.D. (1993): Biogeography: An Ecological and Evolutionary Approach 5th edn. Blackwell.
2. Huggett R.J. (2004): Fundamentals of Biogeography, Routledge
3. Llies J. (1974): Introduction to Zoogeography, McMillan, London.
4. Khoshoo T.N. and Sharma M. (edn.)(1991): Indian Geosphere-Biosphere Har-Anand Publication, Delhi.
5. Lapedes D.N. (ed) (1974): Encyclopedia of Environmental Science, McGraw Hill
6. Mathur H.S. (1998): Essentials of Biogeography, Anuj Printers, Jaipur.
7. Pears, N. (1985): Basic Biogeography 2nd edn. Longman, London, 1985
8. Simmon I.G. (1974) : Biogeography, Natural and Cultural, Longman, London, 1985
9. Tivy, J (1992): Biogeography: A study of Plants in Ecosphere, Oliver and Boyd
10. Ian N Healey, C Barry Cox, Peter D Moore (1972): Biogeography an ecological and evolutionary approach, Blackwell, Oxford
11. Pielou E.C. (1973): Biogeography, John Wiley. New York.
12. Husain M. (1994): Biogeography, Anmol Publication, New Delhi.

by *Dr. Anmol Khoshoo*

UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 1st Semester

Course Code: PSGETC103

Title: India: Regional Geography

Credit: 4

Duration of Examination: 3 hours

Max Marks: 100

a) Minor Test I: 20

b) Minor Test II: 20

c) Major Test: 60

Detailed syllabus for examination to be held in Dec. 2018, 2019, and 2020

Unit-I

- 1.1 Basis of Regionalization of India (Physical, Social and Economic) (3)
- 1.2 Himalayan and Peninsular Drainage Systems of India (3)
- 1.3 Regional Imbalances and Problems of Functional Regions (3)
- 1.4 Soil, Vegetation, Forest Types, their Distribution and Conservation (3)

Unit-II

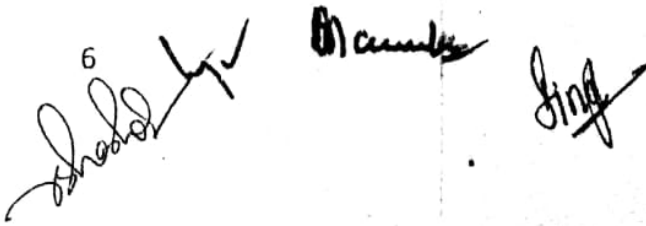
- 2.1 Resource Regions of India: Production, Reserves and Distribution of Coal, Petroleum and Hydro-Electricity. (3)
- 2.2 Production and Distribution of Iron Ore, Bauxite and Mica (3)
- 2.3 Multipurpose Projects: the Damodar Valley, Bhakra Nangal and Sardar Sarovar Dam (3)
- 2.4 Distribution Growth and Density of Population with Special reference to Post Independence Period (3)

Unit-III

- 3.1 Main Characteristics, Features and Problems of Indian Agriculture (3)
- 3.2 Green Revolution and its Spatial Dimensions (3)
- 3.3 Industrial Regions and Special Economic Zones of India (3)
- 3.4 Location Pattern of Iron and Steel, and Textile Industry of India (3)

Unit-IV

- 4.1 Regionalization of Indo-Gangetic Plain (3)
- 4.2 Regional Geography of Jammu & Kashmir (3)
- 4.3 Comparative Analysis of Eastern and Western Coastal Regions of India (3)
- 4.4 Study of India's Islands: Andaman Nicobar & Lakshadweep (3)

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Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-1 (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
(ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
(iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

1. Center for Science and Environment (1988) State of India's Environment, New Delhi.
2. Chand, M. and Puri, V.K. (2000) Regional Planning in India, Allied Publishers Limited.
3. Deshpande, C.D., (1992). India's Regional Interpretation, ICSS and Northern Book Center.
4. Dreze Jean & Amartya Sen (ed) (1966). India Economic Development and Social Opportunity, Oxford University Press, New Delhi.
5. Hussain, M. (2014) Geography of India (5th Ed), McGraw Hill Education.
6. Khollar, D.R. (2011) India: A Comprehensive Geography, Kalyani Publishers.
7. Kundu, A. Raza Mobnis (1982) Indian Economy – The Regional Dimension, Spectrum Publishers, New Delhi.
8. Mandal R. B. (ed.) (1990) Patterns of Regional Geography – An International Perspective. Vol. 3 – Indian Perspective.
9. Robinson, Francis (1989) The Cambridge Encyclopedia of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan and Maldives, Cambridge University Press, London.
10. Sdyasuk Galina and P Sengupta (1967): Economic Regionalization of India, Census of India.
11. Sen, Amartya (2000) Development as Freedom. Random House, Toronto.
12. Singh, R.L., (ed) (1971). India – A Region: Geography, National Geographical Society, India, Varanasi.
13. Tirtha R & Gopal Krishna (1996) Emerging India, Reprinted by Rawat Publications, Jaipur.
14. Tirtha, Ranjit (2002). Geography of India, Rawat Publishers., Jaipur & New Delhi.
15. Tiwari, R.C. (1999) Geography of India, Prayag Publishers, Allahabad.

UNIVERSITY OF Jammu
M.A/ M.Sc. Geography Ist Semester

Course No. PSGETC104
Credit: 4

Title: Population Geography

Duration of Examination: 3 hours

Max Marks: 100

a) Minor Test-I: 20
b) Minor Test-II: 20
c) Major Test: 60

Detailed syllabus for examination to be held in May 2018, 2019, 2020

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)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

(i)

- (iii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iv) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

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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Course Code: PSGELC 105

Title: Quantitative Techniques in
Geography

Credit: 4

Duration of Examination: 3 hours

Max Marks: 100

a) External: 50

b) Internal: 50

Detailed syllabus for examination to be held in 2018, 2019 and 2020

Contact Hours

Unit I

(12)

- 1.1 Evolution and Significance of Statistical Methods in Geography.
- 1.2 Nature of Geographic Data and its Tabulation.
- 1.3 Graphic Representation, Frequency polygon, frequency curve and Ogive.

Unit II

(12)

- 2.1. Correlation Analysis: Scatter Diagram.
- 2.2. Karl Pearson's Product Moment and Spearman's Rank Correlation
- 2.3. Test of Significance on Correlation.

Unit III

(12)

- 3.1. Simple Linear Regression.
- 3.2. Introduction to Multiple Regression Analysis and Least Square Method of fitting
Regression Lines
- 3.3. Coefficient of Determination

Unit IV

(12)

- 4.1 Time Series Analysis of Trends.
- 4.2 Seasonal Variations, Cyclic Variations
- 4.3 Trend Lines by Least Square Method.

NOTE FOR PAPER SETTER

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.

Suggested Readings

1. Gupta.S.P. (2006), "Statistical Methods", Sultan Chand & Sons, Educational Publishers, New Delhi
2. Pickinson G.C. (1987), "Statistical Mapping Presentation Statistics", The Bath Press, Great Britain.
3. Hamburg Morris, (1979), " Basic Statistics: A Modern Approach", Printed in USA
4. Pal Saroj K, (1982), "Statistical techniques, A Basic Approach to Geography", Tate McGraw Hill Publishing Company Limited, New Delhi.
5. Bose Ashish (1996), " India's Basic Demographic Statistics" D.K. Fine Arts Press (P), Ltd. Delhi-110052
6. Singh R.L. Rana P.B. Singh (1992), "Elements of Practical Geography", Kalyani Publishers, New Dehi.

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Course Code: PSGELC106

Title: Cartography

Credit: 4

Duration of Examination: 3 hours

Max Marks: 100

a) External Exam : 50

b) Internal Assessment: 50

Detailed syllabus for examination to be held in Dec. 2018, 2019, and 2020

Contract Hours

Unit-I

(12)

1. Cartography: Nature, history and recent trends.
2. Types of data and symbols.

Unit-II

(12)

1. Representation of Relief and landforms: Elementary conventional Methods and profile, Calculation of Gradient, Methods of slope analysis.
2. Mapping of Climatic data: Temperature and Rainfall.

Unit-III

(12)

1. Representation of Population data.
2. Representation of Agriculture data.

Unit-IV:

(12)

1. Computer Assisted Cartography, Relation between Conventional Cartography, Computer Assisted Cartography and GIS.
2. Choice of Projections. Preparation of Spatial Models in Cartography and planning.

Note for Paper Setters:

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

Suggested Readings:

1. Birch, T.: Maps, *Topographical and Statistical*, Clarendon Press, Oxford, 1949.
2. Bolstad, P.: *GIS Fundamentals: A First Text on Geographic Information Systems*, Second Edition, White Bear Lake, MN: Eider Press, 2005.
3. Brown, L.A.: *The Story of Maps*. Cressit Press, London. 1951.
4. Crampton. W. C.: *Mapping : A Critical Introduction to Cartography and GIS*. John Willy & Sons, New York, 2010.
5. Gregory, S.: *Statistical Methods and Geographer*. Longmans, London. 1963.

6. Harvey, Francis: *A Primer of GIS. Fundamental Geographic and Cartographic Concepts*, The Guilford Press, 31 pp., 2008.
7. Heywood, I., Cornélius, S., and Carver, S.: *An Introduction to Geographical Information Systems*. Prentice Hall, 3rd edition, 2006.
8. John Krygier and Denis Wood: *Making Maps: A Visual Guide to Map Design for GIS*. Guilford Publications, 2013.
9. Keates, J.S.: *Cartographic Design and Production*, Longman, London, 1998.
10. Misra, R.P. and Ramesh, A.: *Fundamental of Cartography*. Concept Publishing Company, New Delhi, 1989.
11. Monkhouse, F.J.: *Maps and Diagrams*, Methuen and Co., London, 1994
12. Raisz, Erwin: *Principles of Cartography*, McGraw Hill, New York, 1962.
13. Robinson, A.H. and Others: *Elements of Cartography*. John Willy & Sons, New York. 6th Edition, 1992.
14. Singh, R. L. and Singh, R.P.B.: *Elements of Practical Geography*, Kalyani Publishers, New Delhi, Reprint 2002.
15. Tamaskar, B.G. and Deshmukh, V.M.: *Geographical Interpretation of Indian Topographical Maps*, Orient Longman Ltd., New Delhi, 1974.

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UNIVERSITY OF JAMMU
M.A/M.Sc Geography 2nd semester

Course Code: PSGETC201

Title: Climatology

Credit: 4

Duration of Examination: 3 Hours

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II: 20.

(c) Major Test- 60

May 2019, 2020 + 2021

Detailed syllabus for examination to be held in December 2018, 2019 and 2020

Unit I

- 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 (3)
(Temporal, vertical and horizontal)
- 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 (3)
Monsoon winds, norwesters and cyclones
- 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 (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)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-1 (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

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- (i) The major test will have four questions each of 15 marks.
 - (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
 - (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

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. Dept.: 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.

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UNIVERSITY OF JAMMU
M.A/M.Sc Geography 2nd semester

Course Code: PSGETC202

Credit: 4

Duration of Examination: 3 Hours

Title: Economic Geography

Max. Marks: 100

(a) Minor Test-I: 20

(b) Minor Test-II: 20.

(c) Major Test- 60

May - 2019, 2020 + 2021

Detailed syllabus for examination to be held in December 2018, 2019 and 2020

Unit-I

- 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 & Christaller
Central place theory (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:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
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Dr. Anurag Singh

Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

(iv) The major test will have four questions each of 15 marks.

(v) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.

(vi) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

1. K.K Khanna, Economic & commercial geography, 23, Daryagan, New Delhi.
2. Roy, Prithvish, Economic Geography: A Study of resources, New central Book Agency, Calcutta-700009.
3. K.Siddhartha, Economic Geography (Theories, Processes and Patterns) Kisalaya publications pvt. Ltd. Patna-13.
4. 4. Wheeler, J.O et al.: Economic Geography, John Wiley, New York, 1995.
5. 5. Singh, J. and Dhillon, S.S., Agricultural Geography, Mcgraw Hill, India, New Delhi, 1984.
6. 6. Leong & Morgan: Human and Economic Geography, Oxford University Press, Oxford, New Delhi.
7. 7. B. Tondon & K. Tondon: Indian Economy, Tata McGraw Hill publishing company Ltd. New Delhi.
8. 8. Alexander, J.W., 1963, Economic Geography, Prentice Hall Inc, Englewood cliffs, New Jersey.
9. 9. Hooder, B.W. & Lee Rogen, 1974: Economic Geography, Tatlor & Frensis.
10. 10. Hussain, M. 2004, Systematic Agricultural Geography, Rawat Publications, Jaipur, India.
11. 11. Dixit, R.S., 1990, Geography of Marketing and commercial activities in India, concept publishing company, India.
12. 12. Khalid Ahmed, Economic & Commercial geography, Azeem Academy.
13. 13. Puri, V.K. and Mishra, S.K (2014). Indian Economy, Himalaya publishing House.

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UNIVERSITY OF JAMMU
M.A/M.Sc Geography 2nd semester

Course Code: PSGETC203

Title: History of Geographical
Thoughts

Credit: 4

Duration of Examination: 3 Hours

Max. Marks: 100

(a) Minor Test I: 20

(b) Minor Test II: 20

(c) Major Test: 60

Detailed syllabus for examination to be held in December 2018, 2019 and 2020

May 2019, 2020 + 2021

Unit I

- 1.1 General Character of Geography in the Ancient Period-
Contribution of Herodotus, Eratosthenes, Strabo and Ptolemy (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 viewpoints 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.
- 4.2 Growth and development of Systematic Geography.
- 4.3 Growth and development of Regional Geography.
- 4.4 Time and Genesis in Geography.

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
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Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
(ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
(iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

1. Abler, Ronald: Adams, John S. Gould, Peter: Spatial organization: The Geographies view of the world, Prentice Hall, N.J., 1971.
2. Ali, S.M: The Geography of Puranas, People 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 and science of Geography integrated readings, Prentice Hall of India, New Delhi, 1994.
5. Hartshorne, R: Perspectives on nature of Geography, Rand Mc Nally & co, 1959.
6. Hussain, M: Evolution of Geographic thought, Rawat publications, Jaipur 1984.
7. Johnston, R: 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.

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UNIVERSITY OF JAMMU
M.A/M.Sc Geography 2nd semester

Course Code: PSGETC204
Credit: 4

Title: Regional Development and Planning

Duration of Examination: 3 Hours

Max. Marks: 100

- (a) Minor Test-I : 20
(b) Minor Test-II : 20
(c) Major Test : 60

Detailed syllabus for examination to be held in ~~December 2018, 2019 and 2020~~
May, 2019, 2020 + 2021

Contract Hours

Unit I

- 1.1 Definition of Region, Evolution and types of Regional Planning (3)
1.2. Merits and limitations for application to regional planning and development. (3)
1.3. Survey for Planning. (3)
1.4. Methodologies and Techniques of Regional Planning. (3)

Unit II

- 2.1 Types of region-Formal and functional, uniform and nodal. (3)
2.2 Regional imbalances in India-Agricultural, Industrial, Rural-Urban. (3)
2.3 Special purpose planning- Metropolitan Planning, Tribal Area Development Planning. (3)
2.4 Problem regions-hilly regions, drought prone regions. (3)

Unit III

- 3.1 Planning regions of India. (3)
3.2 Regional Development Policies in India: Problems and Prospects. (3)
3.3 Concept of multilevel planning and decentralized planning. (3)
3.4 Short term planning and Long term planning. (3)

Unit IV

- 4.1 Theories and models of Regional Planning-Growth pole, Rostow's model of growth. (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 in India. (3)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-1 (after	Upto 25%	1:30 hours	20

30 days)			
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested readings

1. Alber, R. et al. Spatial Organisation: The Geographer's view of the world, Prentice Hall, Englewood cliffs, N.J., 1971.
2. Bhat, L.S. et al.: Micro-level Planning: A case study of Karnal area, Haryana, K.B. Publications, New Delhi, 1976
3. Bhat, L.S., Regional Planning in India, Statistical Publishing Society, Calcutta, 1973
4. Chorley, R.J. and Hagget, : 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. Clackson, 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.
11. Indian council of Social Sciences 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.

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UNIVERSITY OF JAMMU
M.A./ M.Sc. Geography 2nd Semester

Course Code: PSGETC205

Credit: 4

Duration of Examination: 3 hours

Title: Geography of Rural Settlements

Max Marks: 100

a) Minor Test-I: 20

b) Minor Test-II: 20

c) Major Test: 60

Detailed syllabus for examination to be held in ~~Dec. 2018, 2019, and 2020~~

May 2019, 2020 + 2021

Unit-I

- 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 Jammu and Ladakh. (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 reference 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 in India. (3)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:-

1. Suwnita Ghosh, (2003), Introduction to Settlement Geography Orient Longman Pvt. Ltd.
2. Raj Rajeshwar, (2015) "Settlement Geography" Anmol Publications Pvt. Ltd. New Delhi-110002 (India)
3. Mandal R.B. (2001) "Introduction to Rural Settlement", Concept Publishing Company, New Delhi-110059
4. Misra H.N. (1987) "Rural Geography, "Heritage Publishers, New Delhi (INDIA)

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UNIVERSITY OF JAMMU
M.A/M.Sc Geography 2nd semester

Course Code: PSGELC206

Credit: 4

Duration of Examination: 3 Hours

Title: Physical Survey & Morphometric Analysis

Max. Marks: 100

(a) Internal : 50

(b) External : 50

Detailed syllabus for examination to be held in ~~2018, 2019 and 2020~~ May 2019, 2020 + 2021

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

Field Instrument Survey: Scope, purpose and application of Survey. Introduction, advantages, disadvantages and procedure of Dumpy level and Theodolite/Total station.

Unit-IV

Based on observations and data collected in the field write a report and prepare sheets for the data recorded with the help of instruments.

Note for Paper Setters:

Breakup of marks	
1. Internal:	
i. Daily Evaluation of Practical Record:	20
ii. Attendance:	10
iii. Test+Viva-Voce+Practical Records (10+5+5):	20
Total:	50

2. External:	
Final Practical Performance+Viva-Voce:	50

G. Total: 100

Note:

1. The HOD will select the Course-coordinator.
2. HOD in consultation with DAC shall select the site for Physical Survey and Morphometric Analysis within or outside the state.

Suggested Readings:

1. Machumu, H. understanding Practical Geography: Map Work-Surveying-Fieldwork. GRIN Verlag, 2011.
2. Indian Council of Social Science Research.
3. T.P. Kanetkar and S.V. Kulkarni, Surveying and leveling, Purie Vidyathi Griha Prakashan.
4. Zamir Ali (1994) "A Text Book of Surveying Vikas Publishing House Pvt. Ltd., New Delhi.
5. R.L Singh and Rana P.B.Singh (2004) "Elements of Practical Geography", Kalyani Publishers, New Delhi.
6. Ashis Sarkar (2009), "Practical Geography-A Systematic Approach", Orient Blacksw Private Limited, Kolkata.
7. B.C. Punnia, Ashok Kuniar Jam and Arun Kumar Jam (11993), "Surveying" Laxmi Publications, New Delhi.

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UNIVERSITY OF JAMMU
M.A./M.Sc. Geography 3rd Semester

Course Code: PSGETC301

Credit: 4

Duration of Examination: 3 Hours

Title: Oceanography

Max. Marks: 100

(a) Minor Test-I 20

(b) Minor Test-II: 20

(c) Major Test: 60

Detailed syllabus for examination to be held in December 2019, 2020 and 2021

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, Submarine canyons, continental rise, deep sea trenches and Abyssal hill. (3)

Unit II

- 2.1. Bottom relief of the Oceans-Atlantic, Pacific and 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 and 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 and Daly (3)
- 3.3. Tides-Characteristics and Origin, Equilibrium and Dynamic model (3)
- 3.4. Waves and Tsunami.

Unit IV

- 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 and Global water cycle (3)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

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. and Godfrey, J.S., Regional Oceanography, 2003, Daya Publishing House, Delhi.

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UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 3rd Semester

Course Code: PSGETC302

Credit: 4

Duration of Examination: 3 hours

Title: Political Geography

Max Marks: 100

- a) Minor Test-I: 20
b) Minor Test-II: 20
c) Major Test: 60

Detailed syllabus for examination to be held in December ~~2018, 2019, and 2020~~ 2019, 2020 & 2021

Contact Hours

Unit I:

- 1.1. Definition, Nature and Scope of Political Geography
- 1.2. Significance and Relevance of Political geography
- 1.3. Emergence of Political Geography in England and Germany
- 1.4. Contributions of Fredrick Rangel and Karl Haushofer.

Unit II:

- 2.1. Major Elements of Political Geography
- 2.2. Heart Land concept and Rimland Concept
- 2.3. Boundaries and Frontiers
- 2.4. Development and Growth of Political Geography in Africa.

Unit III:

- 3.1. Detente and Cold War.
- 3.2. Law of the Sea Conference.
- 3.3. Political Geography of the Indian Ocean.
- 3.4. Geopolitics and Political Economy of North and South Korea.

Unit IV

- 4.1. Indo-China Border dispute.
- 4.2. Political Geography of the Gulf Countries with special reference to OPEC.
- 4.3. Political Geography of O.I.C.
- 4.4. India's Foreign Policy with regard to China, Pakistan and Afghanistan.

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-1 (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

The major test will have four questions each of 15 marks.

(i) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.

(ii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:-

1. Political Geography and International Politics by W. Walken Berg.
2. Political Geography by Norman J. Pounds.
3. Political Geography Nation State, Locality by Peter J. Teller.
4. Political Geography: A New Introduction by Richard Muir.
5. Modern Political Geography by Richard Muir.
6. Political Geography by Mark Blacksell.
7. Political Geography of Sudeepta Adhikari
8. Political Geography: The specialty of Politics by Ramesh Dutta Dikshit.

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UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 3RD Semester

Course Code: PSGETC303

Credit: 4

Duration of Examination: 3 hours

Title: Geography of Rural Development

Max Marks: 100

d) Minor Test-I: 20

e) Minor Test-II: 20

f) Major Test: 60

Detailed syllabus for examination to be held in December ~~2018, 2019, and 2020~~ 2019, 2020 + 2021

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 Area Development Programme)
CADP (Common Area Development Programme)
- 1.4. Poverty Alleviation in Rural India: Strategy and Programmes (3)

Unit II: Dimensions of Rural Development

- 2.1. Role of Agriculture in Rural Economy (3)
(a) Land use Classification and land use 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

- 4.1. Appropriate technology for the rural development. (3)
- 4.2. Post-harvest technology. (3)
- 4.3. Farm technology in India- HYV Seeds, Chemical fertilizers, plant protection and soil conservation. (3)
- 4.4. Importance of food security and sustained rural development. (3)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hours	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hours	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (iii) The major test will have four questions each of 15 marks.
(iv) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
(v) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings;

1. Dey, S.K., Panchavati Rai: A Synthesis. Asia Publishing House, New Delhi, 1961.
2. Kurukshetra- A Symposium, Publication Division-Ministry of Information and broadcasting, Govt of India Press, Basik, 1967.
3. Mishra, R.P., Rural Area Development, Concept Publishing House, New Delhi, 1980.
4. Prashad K.N., India's Rural Problems, Concept Publishing Company, New Delhi, 1991.
5. Rao, VISP., Development 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. Swarninathan, M.S., Science and Integrated Rural Development, Concept Publishing House, New Delhi, 1987.

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UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 3RD Semester

Course Code: PSGELC304

Title: Remote Sensing and GIS

Credit: 4

Duration of Examination: 3 hours

Max Marks: 100

(a) Internal : 50

(b) External : 50

Detailed syllabus for examination to be held in May. ~~2018, 2019, and 2020~~ ^{2019, 2020 & 2021}

Unit I	Contract Hours
1.1 Historical Development of Remote Sensing.	3
1.2 Fundamentals of RS.	3
1.3 Introduction to aerial-photography, geometry of aerial photos, measurement of scale, heights and slope from vertical photos.	3
3.4 Identification and mapping of Physical and cultural landscape from aerial photographs.	3
 Unit II	
2.1. Elements and techniques of visual image interpretation.	3
2.2. Overview of digital image processing.	3
2.3. Techniques of digital image enhancement.	3
2.4. Image analysis and classification.	3
 Unit III	
3.1. Fundamental and historical development of GIS.	3
3.2. Creation and spatial data base using GIS.	3
3.3. Spatial data analysis.	3
3.4. Output generation and layout.	3
 Unit IV	
1.1. Surface analysis, Digital Elevation Model (DEM) and Digital Terrain Model (DTM)	3
4.2 Landuse-Land cover Classification.	3
4.3. Introduction to GPS.	3
4.4. Collection of ground Controls points using GPS and transferring data from GPS to PC.	3

Suggested Readings

1. Campbell, J.B. 2002: Introduction to remote sensing. Taylor Publications
2. Drury, S.A., 1987: Image Interpretation in Geology. Allen and Unwin
3. Gupta, R.P., 1990: Remote Sensing Geology. Springer Verlag
4. Jensen, J.R. 2000: Remote Sensing of the Environment: An Earth resource Perspective. Prentice Hall.

5. Joseph George. 2003: Fundamentals of remote sensing. Universities Press
6. Lillesand, T.M., and Kieffer, R.M., 1987: Remote Sensing and Image Interpretation, John Wiley.
7. Sabbins, F.F., 1985: Remote sensing Principles and interpretation. W.H.Freeman and company
8. Anji Reddy, M. 2004: Geoinformatics for environmental management. B.S. Publications
9. Chang, T.K. 2002: Geographic Information Systems. Tata McGraw-Hill
10. Heywood, I., Cornelius S., Crver Steve. 2003: An Introduction to Geographical Information Systems. Pearson Education
11. Ram Mohan Rao. 2002: Geographical Information Systems. Rawat Publication.
12. Skidmore A. 2002: Environmental modeling with GIS and Remote Sensing. Taylor and Francis Tar Bernhardsen. Geographical Information Systems. John Wiley.
13. Wise S. 2002: GIS Basics. Taylor Publications

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UNIVERSITY of JAMMU
M.A./ M.Sc. Geography 3RD Semester

Course Code: PSGELC305

Title: Field Work: Socio-economic Survey

Credit: 4

Duration of Examination: 3 hours

Max Marks: 100

(a) Internal: 50

(b) External: 50

Detailed syllabus for examination to be held in May 2019, 2020, & 2021
~~2018, 2019 and 2020~~

Contact Hours

Unit I: Research Techniques

(12)

- 1.1. Introduction to Sampling: Types, Units, Designs and Error.
- 1.2. Introduction to SPSS.

Unit II: Preparation of Field Book

(12)

- 2.1. Preparation of a Topographical Map of 1: 50,000 or 1: 25,000 Scale to Study the settlements selected in a regional setting.
- 2.1. Prepare a question book/questionnaire to collect Demographic, Social and Economic data to study the temporal change in the Profile of the study area.

Unit III: Field Work

(12)

- 3.1. Conduct a Socio-economic field work of a selected area supplemented by personal observations and investigation.

Unit IV: Preparation of Report

(12)

- 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.

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Note:

1. The HOD will coordinate the course.
2. HOD in consultation with DAC shall select the site for the socio-economic survey within or outside the state.
3. The Course Co-coordinator shall allot students to the teachers for supervision to write the reports.
4. The internal examination shall comprise of 50 marks out of which 10 marks shall be for the subject matter, 10 marks for methodology, 10 marks for presentation, 10 marks for attendance and 10 marks for viva-voce.
5. The external examination shall be conducted jointly by the course coordinator and the external Examiner and shall comprise of 50 marks.

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. and 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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Cumba

Course Code: PSGETE 306

Credit: 4

Duration of Examination: 3 hours

Titles: Physical Geography

Max Marks: 100

- a) Minor Test-I: 20
b) Minor Test-II: 20
c) Major Test: 60

Detailed syllabus for examination to be held in ~~December 2018, 2019, and 2020~~
May 2019, 2020, 2021

Objectives:

The objective of this course is to introduce the latest concepts in Physical Geography, essentially Geomorphology to the students of Geography in a brief but adequate manner.

Unit-I

	No. of Lectures
1.1 Definition, Nature and Scope of Geography	2
1.2 Division of Geography	2
1.3 Physical Geography and its components	1
1.4 - Physical Geography and its applications	1

Unit-II

2.1 Theories regarding origin of the earth: Nebular, Kant and Planetesimal Hypothesis	2
2.2 Theory of Continental Drift and Plate Tectonics	1
2.3 Earth Movements - Endogenetic & Exogenetic	1
2.4 Weathering and Erosion	2

Unit-III

3.1 Weather & Climate, Composition & structure of atmosphere	1
3.2 Insolation, vertical and horizontal, distribution of temperature	2
3.3 Atmospheric circulation - pressure and wind system atmospheric moisture and precipitation.	2
3.4 Climate theory; El-Nino, green house effect and global warming and excretal response.	

Unit-IV

4.1 Configuration of ocean floor -continental shelf; continental slope submarine ridges and ocean deep.	2
4.2 Temperature of oceans-horizontal and vertical distribution of temperature	2
4.3 Salinity-Causes and distribution.	2
4.4 Ocean water circulation-causes & types of ocean currents of Indian and Atlantic ocean. -	2

Number of lectures: 25

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
(ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.

The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings

1. Trewartha, G. T. 1968. An Introduction to Climate. McGraw-Hill Book Company, New York.
2. D.S.Lal. 1998. Climatology. Chaitanya Publishing House, Allahabad.
3. Suggested Readings:
4. Critchfield, J. Howard. 2012. General Climatology. 4th Edition (Reprinted). Phi Learning Pvt. Ltd., New Delhi.
5. Das, P. K. 2011. The Monsoons. National Book Trust, New Delhi
6. Conserva H. T., 2004: Illustrated Dictionary of Physical Geography, Author House, USA.
7. Gabler R. E., Petersen J. F. and Trapasso, L. M., 2007: Essentials of Physical Geography (8th Edition), Thompson, Brooks/Cole, USA.
8. Garrett N., 2000: Advanced Geography, Oxford University Press.
9. Goudie, A., 1984: The Nature of the Environment: An Advanced Physical Geography, Basil Blackwell Publishers, Oxford.
10. Hamblin, W. K., 1995: Earth's Dynamic System, Prentice Hall, N.J.
11. Husain M., 2002: Fundamentals of Physical Geography, Rawat Publications, Jaipur.
12. Monkhouse, F. J. 2009: Principles of Physical Geography, Platinum Publishers, Kolkata.
13. Strahler A. N. and Strahler A. H., 2008: Modern Physical Geography, John Wiley & Sons, New York.

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Course Code: PSGETC401

Credit: 4

Duration of Examination: 3 hours

UNIVERSITY OF Jammu
M.A/ M.Sc. Geography 4th Semester

Title: World Regional Geography

Max Marks: 100

a) 1st Minor Test: 20

b) 2nd Minor Test: 20

c) Major Test: 60

Detailed syllabus for examination to be held in May ~~2018, 2019, 2020~~

2020, 2021 + 2022

Contact Hours

- Unit-I Geography of North America**
- 1.1 Physical Setting-Land forms, climate, soils and Drainage system
 - 1.2 Agriculture Pattern & Distribution of Crops.
 - 1.3 Industries-West Coast and East Coast
 - 1.4 Population structure and cultural background, Historical setting.
- Unit-II Geography of South America**
- 2.1 Physical Setting-Land forms, climate, soils and Drainage system
 - 2.2 Agriculture Pattern & Distribution of Crops.
 - 2.3 Industries
 - 2.4 Population structure and cultural background, Historical setting.
- Unit-III Geography of Africa**
- 3.1 Physical Setting-Land forms, climate, soils and Drainage system
 - 3.2 Agriculture Pattern & Distribution of Crops.
 - 3.3 Industries
 - 3.4 Population structure and cultural background, Historical setting.
- Unit-IV Geography of Europe**
- 4.1 Physical Setting-Land forms, climate, soils and Drainage system
 - 4.2 Agriculture Pattern & Distribution of Crops.
 - 4.3 Industries
 - 4.4 Population structure and cultural background, Historical setting.

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Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-1 (after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

(i) The major test will have four questions each of 15 marks.

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- (ii) One compulsory question will be of short answer type of multiple parts spread entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Readings:

1. Majid Hussain "World Geography" Rawat Publications.
2. A.S. Yadav "Genesis of Geographical Boundaries of the World" Anmol Publications
3. Paul Claverl, "An Introduction to regional Geography" Blackwell Publications.
4. George F. Hapner & Jesse O Mackee "World Regional Geography" West Publishing Company.
5. John Cole "Geography of the Worlds Major Regions" Rutledge.
6. John Macfarlane, "Economics Geography of the World" Mohit Publications.
7. L. Dudley Stamp "World Regional Geography."

UNIVERSITY OF Jammu
M.A./M.Sc. Geography 4th Semester

Course Code: PSGETC402

Credit: 4

Duration of Examination: 3 hours

Title: Urban Geography

Max Marks: 100

a) 1st Minor Test: 20

b) 2nd Minor Test: 20

c) Major Test : 60

Detailed syllabus for examination to be held in May 2018, 2019 and 2020

May, 2020, 2021-2022

Contact Hours

Unit-I

- 1.1 Nature, Scope and Significance of Urban Geography
- 1.2 Different Approaches to the Study of Urban Geography
- 1.3 Definition of Urban Places, Origin and Growth of Urban Centres, Basis of Urbanization.
- 1.4 Location, Situation and site of Urban Centres

Unit-II

- 2.1 Size and Spacing of Urban Settlements with Special reference to Christaller and Losch
- 2.2 City Region Relationship: Basis, Nature, Definition and Functional Structure of Umland
- 2.3 Classification of Urban Settlements on the basis of Size and Functions
- 2.4 Economic Base of Cities-Basic and Non-Basic Concepts

Unit-III

- 3.1 Urban Morphology and Land Use Models of Burgess (Concentric Zone) Harris-Ulman (Multiple Nuclei) and Hoyt's (Sector)
- 3.2 Morphology of Indian Cities and its Comparison with Western Cities
- 3.3 Urban Sprawl - Concept and Features
- 3.4 Urban Fringe-Attributes and Demarcation

Unit-IV

- 4.1 Functional Land Use and Planning
- 4.2 The Central Business District-Concept and Characteristics
- 4.3 Urban Housing - Types, Policies and Programmes
- 4.4 Contemporary Urban Issues- Slums, Services (drinking water)

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

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- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

	covered in exam.	exam.	(marks)
Minor Test-I after 30 days	Upto 20%	1 hour	20%
Minor Test-II after 60 days	21% to 40%	1 hour	20%
Major Test	41% to 100%	3 hours	60%

The Question Paper shall comprise of two Sections-A and B. Section-A shall be compulsory with short answers not exceeding 50 words and shall be spread over the entire syllabus. It shall contain 5 questions of 3 marks each. Section-B shall comprise of 3 units and candidates shall have to attempt one question from each unit carrying 15 marks each. The Major Tests shall be 4 questions of 15 marks each.

Suggested Readings:

1. Ahmad Q. "Indian Cities, Characteristics and Correlates".
2. Alam S.M. "Urban Growth, Trends and Patterns".
3. Carter H "The Study of Urban Geography" London 1973.
4. Murphy R.E. "The American City An Urban Geography New York 1969".
5. Meir G.M. "The Study of Urban Geography Cambridge 1962.
6. Mandal R.B. "Urban Geography" A Text Book New Delhi 2000.

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UNIVERSITY OF JAMMU
M.A/M.Sc. Geography 4th Semester
Title: Agricultural Geography

Course Code: PSGETC403

Credit: 4

Duration of Examination: 3 Hours

Max. Marks:100

(a) Minor Test-I : 20

(b) Minor Test-II : 20

(c) Major Test : 60

Detailed syllabus for examination to be held in 2018, 2019 and 2020 May 2020, 2021 & 2022

Contact Hours

Unit I

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

Unit II

- 2.1 Factors Affecting the Agricultural Land Use
- 2.2 Agricultural Concept and their Measurement
a. Cropping Pattern b. Crop Concentration
c. Cropping Intensity d. Crop Diversification
- 2.3 Crop Combination, Agricultural Efficiency and Productivity
- 2.4 Green Revolution-Its Impact and Consequences

Unit III

- 3.1 Von Thunen's Model of Agricultural Location and its Modification
- 3.2 Land Use Classification: Nine Fold
- 3.3 Regional Pattern of Agricultural Productivity in India
- 3.4 Agricultural Development in Different Financial Years

Unit IV

- 4.1 Basis of Classification of Agriculture in the World
- 4.2 Agricultural Regionalization of India
- 4.3 Characteristics of India Agricultural
- 4.4 Drought and Food Security and Food Aid Programme

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I 9after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Suggested Reading

1. Basu, D.N., and Guha, G.S. , 1996: Agro-climatic Regional Planning in India, Vol. I & II, Concept Publications, New Delhi.
2. Bryant, C.R., Johnston, T.R, 1992: Agriculture in the city countryside, Belhaven Press, London.
3. Burger, A., 1994: Agriculture of the world, Aldershot, Avebury.
4. Grigg, D.B., 1984: Introduction to Agricultural Geography, Hutchinson, London.
5. Ilbery, B.W. , 1985: Agricultural Geography: A social and economic analysis, Oxford University Press.
6. Mohammad, N., 1992: New Dimensions in Agriculture Geography, Vol. I to VIII, Concept Publication, New Delhi.
7. Roling, N.G., and Wageruters, M.A.E., (Ed.) 1998: Facilitating sustainable Agriculture, Cambridge University Press, Cambridge.
8. Shafi, M., 2006: Agricultural Geography, Doring Kindersley India Pvt. Ltd., New Delhi.
9. Singh, J., and Dhillon, S.S., 1984: Agricultural Geography, Tata Mcgraw Hill, New Delhi.
10. Tarrant, J.R., 1973: Agricultural Geography, David and Charles, Devon.
11. Hussain, M., Agricultural Geography, Rawat Publications, 1996.

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UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 4th Semester

Course Code: PSGETC404

Credit: 4

Duration of Examination: 3 Hours

Title: Environmental Planning and Management

Max.Marks:100

(a) Minor Test-I : 20

(b) Minor Test-II : 20

(c) Major Test : 60

Detailed syllabus for examination to be held in May ~~2018, 2019 and 2020~~ 2020, 2021 & 2022

Contact Hours

Unit-I

Introduction to Environment

- 1.1 Concept and components of environment
- 1.2 Environment: Life support system.
- 1.3 Resource field and pollution sink.
- 1.4 Ecosystem: Concept, nature, components, function and types.

Unit-II

Environmental Crises and Problems:

- 2.1 Human Environment interaction: Environment and technology;
- 2.2 Local, regional and global environmental problems; interconnections of these Environmental problems;
- 2.3 Environmental degradation and pollution
- 2.4 Resource evaluation and degradation.

Unit-III

Environmental Planning and Management

- 3.1 Planning and management: Concepts, functions, approaches and Processes.
- 3.2 Environmental Planning; Theory and process;
- 3.3 Environmental Management; Steps and process;
- 3.4 International commitments and national legal framework of Environmental Planning and Management.

Unit-IV

Approaches and Techniques

- 4.1 Approaches to Environmental planning and management.
- 4.2 Risk restoration and holistic; scales of planning and management.
- 4.3 Small community, urban, watershed and eco-region.
- 4.4 Techniques, ETA, GIS, Remote Sensing.

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Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
(ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
(iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Books Recommended:

1. Barrow, C.J. (1999). Environmental Management: Principles and Practice. Routledge, New York.
2. DuPont, R.R., I.E. Baxter and L, Theodore, (1998). Environmental Management: Problems and Solutions, Lewis Publishers, Missouri.
3. Hanaki, K.(Ed.), (2008). Urban Environmental Management and Technology, Shinano'inc. Springer.

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UNIVERSITY OF Jammu
M.A. / M.Sc. Geography 4th Semester

Course Code: PSGETC405

Credit: 4

Duration of Examination: 3 hours

Title: Gender Geography

Max Marks: 100

a) Minor Test I: 20

b) Minor Test II: 20

c) Major Test : 60

Detailed syllabus for examination to be held in ~~May 2018, 2019 and 2020~~ *May 2020, 2021 + 2022*

Unit-I

	Contact Hours
1.1 Nature of Gender Geography	2
1.2 Place of Gender within Geography	1
1.3 Development of Gender Geography and changing Social Attitude	2
1.4 Gender roles and research	2

Unit-II

2.1 Concept of Feminism	1
2.2 Radical and Social Feminism	1
2.3 Phenomenological and Humanistic Approaches in Gender Geography	1
2.4 Marxism and Gender	2

Unit-III

3.1 Employment	1
3.2 Health Care	2
3.3 Literacy	2
3.4 Women Empowerment	1

Unit-IV

4.1 Global Gender Variations in Developed and Developing countries.	2
4.2 Global Gender Legislation	1
4.3 National Policies and Women's Rights in India	1
4.4 Case Studies in J&K	2

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

The Question Paper of Major Test shall comprise of two Sections-A and B. Section-A shall be compulsory with short answers not exceeding 50 words and will be spread over the entire syllabus. It shall contain 5 questions of 3 marks each. Section-B shall comprise of Unit-III and Unit-IV wherein out of four questions three questions are to be attempted of 15 marks each.

Suggested Readings:

1. Kobayashi Audrey "Women, Work & Place" 1994.
2. Kobayashi Audrey "Gender Place and Culture" 1994.
3. Legg Stephen "Gender Place and Culture" 2003.
4. Massey Doreen "Space Place and Gender" Minneapolis Universal of Minnesota Press, 1994.
5. Dowosh, Mona & Toni Seagar "Putting Women in Place: Feminist Geographers, Make Sense of the World, New York, 2001.
6. M.Satish & S.Corbridge "Post Colonial Geographers of India, New Delhi: Sage, 2006.
7. R. Sarwati and Lahiri, "Doing Gender, Doing Geography, Emerging Research in India, New Delhi, Routledge, 2001.
8. M.Satish & S.Corbridge "Gendered Geographers: Space and Place" New Delhi, Oxford Universal Press, 2011.

UNIVERSITY OF JAMMU
M.A/ M.Sc. Geography 4th Semester

Course Code: PSGETC406

Credit: 4

Duration of Examination: 3 hours

Title: Tourism Geography

Max Marks: 100

a) Ist Minor Test: 20

b) 2nd Minor Test: 20

c) Major Test: 60

Detailed syllabus for examination to be held in May 2018, 2019, 2020.

May 2020, 2021 & 2022

Contact Hours

Unit-I

- 1.1 Definition, Nature and Scope of Tourism Geography
- 1.2 Locational Dimension Physical Cultural, Historical and Economic
- 1.3 Evolution of Studies in Tourism Geography
- 1.4 Significance of the Study of Tourism Geography

Unit-II

- 2.1 Elements of Tourism
- 2.2 Types and Classification of Tourism
- 2.3 Factors Influencing Tourism -Natural, Socio, Cultural, Economic and Historical.
- 2.4 Tourism as an Industry

Unit- III

- 3.1 Infrastructure and Support System for. Tourism.
- 3.2 Tourism Circuit; -Short and Long Duration
- 3.3 Role of Travel Agencies
- 3.4 The Hotel Industry

Unit-IV

- 4.1 Classification and Types of Indian Tourism
- 4.2 Tourism Destination in Kashmir, Garhwal, Goa and Rajasthan
- 4.3 Impact of Tourism - Physical, Economic and Social.
- 4.4 Environmental Laws and Tourism

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I (after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

- (i) The major test will have four questions each of 15 marks.
- (ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.
- (iii) The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

Note for Paper Setter:

	Syllabus to be covered in exam.	Time allowed for exam.	% Weightage (marks)
Minor Test-I after 30 days	Upto 20%	1 hour	20%
Minor Test-II after 60 days	21% to 40%	1 hour	20%
Major Test	41% to 100%	3 hours	60%

The Question Paper shall comprise of two Sections-A and B. Section-A shall be compulsory with short answers not exceeding 50 words and shall be spread over the entire syllabus. It shall contain 5 questions of 3 marks each. Section-B shall comprise of 3 units and candidates shall have to attempt one question from each unit carrying 15 marks each. The Major Tests shall be 4 questions of 15 marks each.

Suggested Readings:

1. Dhar P. Development of Tourism and Travel Industry, 1997, Kanishka Publisher, 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 Hotel Tourism, Resorts and Restaurant 2003, Kanishka, New Delhi.

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UNIVERSITY OF Jammu
MA./ M.Sc. Geography 4th Semester

Course Code: PSGEDC407
Credit: 4

Title: Dissertation

Max Marks: 100

Internal: 50

External 50

Detailed syllabus for examinations to be held in May 2018, 2019 and 2020- 2020, 2021, 2022

Break-up of Marks

Internal

- | | |
|------------------|----------|
| 1. Subject Mater | 10 marks |
| 2. Methodology | 10 marks |
| 3. Presentation | 10 marks |
| 4. Attendance | 10 marks |
| 5. Record | 10 marks |

External

- | | |
|--------------|----------|
| 1. Record | 30 marks |
| 2. Viva Voce | 20 marks |

There shall be no theory examination either in external or internal.
Candidate shall be examined externally by an examiner from a
panel submitted by HOD/Convener BOS for approval from the competent
authority.

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, 1988, 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 Code: PSGEPC408
Credit: 2

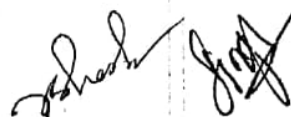
Title: Tour Report
Max Marks: 50
Internal: 25
External: 25

Detailed syllabus for examination to be held in May ~~2018, 2019 and 2020~~ 2020, 2021 + 2022

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 3rd Semester Examination and before the beginning of the IVth Semester Class Work.
3. The Departmental Affairs Committee shall appoint a Course Coordinator 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:
Delhi -Dehradun-Rishikesh- Kedarnath-Badrinath-Govindghat
Ranikhet- Nanital- Kathgodam -Jammu.
Kathodam- Nanital- Almora- Kosambi- Pithoragarh-Pantnagar Jammu
Gorakhpur- Raxau- Birganj- Kathmandu -Jammu.
Siliguri -New Jalpaiguri- Darjeeling- Gangtok- Gauhati-Shillong
Cherrapunji- Jammu
Lucknow- Banaras-Gaya - Allahabad -Jammu
Delhi - Bhopal- Nagpur- Aurangabad- Ahmadabad- Baroda Janmagar-
Dwarika- Bapi- Jammu.
Jaipur- Ajmer -Jodhpur- Udaipur- Jaisalmer- Kota- Ehattorgarh Mt
Abu -Jammu.
Delhi -Secunderbad- Chennai- Kanya Kumari-Kodaikanal Bangalore -
Trivandrum -Cochin- Coimbatore - Ooty- Mysore Goa- Mumbai-
Swai Madhopur-Jaipur -Ajmer- Jammu.
5. The Field Study Tour shall be evaluated both externally and internally.
6. The Course Coordinator shall act as the Internal Examiner
7. The External Examiner shall be appointed from a Panel of Examiners duly approved by the Competent Authority.

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8. The candidates shall be required to write a Tour Report covering the following aspects:.

1. Physiography
2. Human Resources and Settlement
3. Urban Structure and Process
4. Industrialization
5. Transport Connectivity

9. The break -up of marks for Internal shall be as Follows:-

- | | |
|---------------------|----------|
| 1. Subject matter | 05 marks |
| 2. Presentation | 05 marks |
| 3. Attendance | 05 marks |
| 4. Discipline | 05 marks |
| 5. General Behavior | 05 marks |

10. The breakup of marks for External shall be as follows

- | | |
|-------------------|----------|
| 1. Subject Matter | 10 marks |
| 2. Viva Voce | 10 marks |
| 3. Record | 05 marks |

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UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 4th Semester

Course Code: PSGELC409

**Title: Application of Remote Sensing
and GIS in Geography**

Max Marks: 50

Internal: 25

External: 25

Detailed syllabus for examination to be held in 2018, 2019 and 2020 May 2020, 2021 & 2022

Contact Hours

Unit-I

Application of Remote Sensing and GIS in Physical and Human Geography with special reference to, Natural Resource Management Human Settlement, (Rural & Urban), Regional Development and Planning, Environmental Management and Disaster Management.

Unit-II

Based on above applications, prepare a project report by using Remote Sensing and GIS.

Suggested Readings:

1. Barret, EC & Corlis, E.F. The Built Environment in Remote of Environment Second Edition PP.293-306, 1982.
2. Muralikrishna, I.V. Remote Sensing Applications and Geographic Information System-Recent Trends, Tata McGraw Hill, New Delhi, 1992.
3. Nag, Prithvish. Thematic Cartography and Remote Sensing, Concept Publication, New Delhi, 1992.
4. Richardson, B.F.(ed). Introduction to Remote Sensing of the Environment, Kendall/Hunt, Dobuque, Iowa, 1978.
5. Agarwal, C.S. and P.K. Garg. Text Book on RS in Natural Resources Monitoring and Management, Wheeler Publishing Co, New Delhi-2000.
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UNIVERSITY OF Jammu
M.A./ M.Sc. Geography 4th Semester

Course Code: PSGETO410

Credit: 4

Duration of Examination: 3 Hours

Title: Human Geography

Max. Marks: 100

(a) Minor Test-I : 20

(b) Minor Test-II : 20

(c) Major Test : 60

Detailed syllabus for examination to be held in 2018, 2019 and 2020
(Note: Elective Course for students outside the Department of Geography)

May 20, 2021 + 2022

Contact Hours

Unit-I

- 1.1 Meaning and Definition of Human Geography
- 1.2 Subject Matter and Field of Human Geography
- 1.3 Makers and Promoters of Human Geography
- 1.4 Determinism versus Possibilism in Human Geography

Unit-II

- 2.1 Elements of Environment
- 2.2 Man as a Geographical Agent
- 2.3 Human Population-Growth, Distribution and Characteristics
- 2.4 The Demographic Transition and Human Geography

Unit-III

- 3.1 Ethnicity and Races-Concepts and Classification
- 3.2 Tribes and Religions - Classification and Distributions
- 3.3 Regions and Human Geography - Classification and Relationships
- 3.4 House Types and Building Materials used in different Regions

Unit-IV

- 4.1 Rural Settlements – Definition, Types and Significance
- 4.2 Urban Geography – Definition, Urbanization and Significance
- 4.3 Social Geography of India
- 4.4 Trans-Humance and Migration

Note for Paper Setters:

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (marks)
Minor Test-I 9after 30 days)	Upto 25%	1:30 hour	20
Minor Test-II (after 60 days)	26% to 50%	1:30 hour	20
Major Test (after 90 days)	51% to 100%	3 hours	60

17. marks

(i) The major test will have four questions each of 15 marks.

(ii) One compulsory question will be of short answer type of multiple parts spread over entire syllabus.

The remaining six questions will be from 50 percent syllabus and candidate will have to attempt any three of them.

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