

Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory + Practical Based Subjects

Guidelines for Scheme of Examination for

GEOGRAPHY (PASS COURSE)

The Scheme of Examination of undergraduate (UG) Courses (**Theory-70 marks + Practical-30 marks Based Subjects**) under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under (50+20) + 30 (External + Internal + Practical) for practical based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations regarding practical subjects, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 10 marks based on the entire syllabus. It will comprise of ten short answer type questions of one mark each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.
Scheme: (50+20) + 30 (External + Internal + Practical)
1 st question=10 marks (10 short answer type questions of one marks each)
Rest four questions: 10 marks each i.e. 4 x 10=40
Total = (10+40+20) + 30 = 100marks

Components of Internal Assessment (Breakdown of 20 marks)	
(a)	Class Test: 5 marks
(b)	Assignment: 5 marks
(c)	Participation in Class Discussions: 3 marks
(d)	Term Paper/written test/2 nd assignment: 5 marks
(e)	Attendance: 2 marks*

*Weightage of 2 marks for **Attendance** component out of 20 marks for Internal Assessment shall be available only to those students who attend **75% and more** of classroom lectures and practical. The break-up of marks for **attendance component** for theory + practical papers shall be as under:

- (a) 75% and above up to 85%: 01 mark
- (b) Above 85%: 02 mark

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (PASS COURSE)

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

(w.e.f. the academic session 2019-20)

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	Periods per Week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper-A Theory	GEOG 201	Physical Geography-II	6	50	20	---	70	3Hrs
Paper-B Practical	GEOG (P) 202	Representation of Climatic Data	6	---	---	30	30	3Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	Periods per Week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper-A Theory	GEOG 203	Human Geography	6	50	20	----	70	3Hrs
Paper-B Practical	GEOG (P) 204	Map Projections	6	----	----	30	30	3Hrs

GEOGRAPHY (PASS COURSE)

B.A. IInd Year 3rd Semester

PAPER-A (THEORY)

GEOG 201 : Physical Geography-II

(w.e.f. the academic session 2019-20)

Maximum Marks :70

External Marks :50

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 70 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 1 marks each) spread over the whole syllabus. Other questions will carry the 10 marks each.

SECTION-A

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.

SECTION-B

1. Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon, Jet Streams EL NINO- La Nina Phenomenon and Local winds.
2. Humidity- measurement and variables, evaporation, condensation, precipitation types and distribution, hydrological cycle.

SECTION-C

1. Air masses- concept and classification; Fronts- type and characteristics, Weather disturbances- tropical and extra-tropical cyclones.
2. Climate classification by Koppen; climatic change and global warming.

SECTION-D

1. Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian Oceans; temperature and salinity of oceans.
2. Tides, waves and oceanic currents; circulation in Pacific, Atlantic and Indian Oceans; Oceanic resources.

Suggested Readings:

1. Critchfield, H., General Climatology, Prentice-Hall of India, 2002.
2. Barry, RG and Chorley R.J., Atmosphere, Weather and Climate, Routledge, 1998.
3. King, C. Oceanography for Geographers, Edward Arnold, London, 1975
4. Trewartha, GT: An Introduction to Climate, Mc-Graw Hill, New York, 1981.
5. Trewartha, G.T., The Earth's Problems Climates, University of Wisconsin Press, USA.

GEOGRAPHY (PASS COURSE)

B.A. IInd Year 3rd Semester

PAPER-A (PRACTICAL) GEOG(P) 202 : Representation of Climatic Data

(w.e.f. the academic session 2019-20)

Maximum Marks :30

Time : 3 hours

Distribution of Marks

Exercise: 18

Record File: 06

Vivo-voce : 06

Note: There will be four questions in all and candidate has to attempt three exercises.

1. Measurement of temperature, rainfall, pressure and humidity.
2. Representation of temperature and rainfall.
 - (i) Line and Bar Graph – 1 Exercise.
 - (ii) Distribution of temperature (180 therms) – 1 Exercise.
 - (iii) Distribution of rainfall (180 hytes) – 1 Exercise.
 - (iv) Hythergraph - 1 Exercise.
 - (v) Rainfall deviation diagram - 1 Exercise.
3. Climograph (wet and dry places) - 2 Exercise.
4. Distribution of pressure (180 bars) - 2 Exercise.
5. Weather map Interpretation (January & July) - 2 Exercise.

Suggested Readings:

1. Mishra R.P. and Ramesh A. 1999. Fundamentals of Cartography, Concept Publishing Company, New Delhi.
2. Monkhouse, FJ, and Wilkinson H.R., 1972. Maps and Diagrams, Methuen Press, London
3. Robinson, A.H. et.al. Elements of Cartography, John Wiley & Sons, 1995.
4. Singh, R.L., 1979. Elements of Practical Geography, Kalyani Publisher, New Delhi.

GEOGRAPHY (PASS COURSE)

B.A. IInd Year 4th Semester

PAPER-A (THEORY)

GEOG 203 : Human Geography

(w.e.f. the academic session 2019-20)

Maximum Marks :70

External Marks :50

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 70 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 1 marks each) spread over the whole syllabus. Other questions will carry the 10 marks each.

Section - I

1. Nature and scope of Human Geography, Branches of Human Geography, Approaches to the study of Human Geography.
2. Division of Mankind: Spatial distribution of race of India; concept of men-environment relation: A historical approach.

Section - II

1. Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region- Bushman (iii) Plateau – Gonds (iv) Mountains – Gujjars
2. Meaning, nature and components of resources; Classification of resources – renewal and non- renewable ; biotic and abiotic, recyclable and non recyclable.

Section - III

1. Distribution and density of world population, population growth, Demographic Transition Model.
2. Concept of over, under and optimum population; Population theories: Malthus, Ricardo and Marx.

Section-IV

1. Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns, Problems of urbanization in India.
2. Population pressure, resource use and environment degradation; sustainable development, concept of deforestation, soil erosion, air and water pollution.

Suggested Readings:-

1. Agarwal, A etal : The Citizen's Fifth Citizen's Report, Centre for Science & Environment, New Delhi, 1999.
2. Alexander, John. W. : Economic Geography, Prentice Hall of India Ltd., New Delhi, 1988.
3. Bergwan, Edward E: Human Geography: Culture Connections and Landscape, Prentice-Hall, New Jersey, 1985.
4. Carr, M. Patterns: Process and Change in Human Geography, McMillan Education, London, 1987.
5. Chandna, R.C. : A Geography of Population : Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi, 1986.
6. DeBlij, H. J. : Human Geography, Culture, Society and Space, John Wiley, New York, 1996.
7. Fellman, J.L. : Human Geography-Landscapes of Human Activities, Brown and Benchman Pub., USA, 1997.
8. Global Environment Outlook: Earthscan, London, 2000.
9. McBride, P.J. Human Geography; Systems Patterns and Change, Nelson, UK and Canada, 1996.
10. Michael, Can: New Patterns : Process and Change in Human Geography, Nelson, 1996

GEOGRAPHY (PASS COURSE)

B.A. IInd Year 4th Semester

PAPER-A (PRACTICAL) GEOG(P) 204 : Map Projections

(w.e.f. the academic session 2019-20)

Maximum Marks :30

Time : 3 hours

Distribution of Marks

Exercise: 18

Record File: 06

Vivo-voce : 06

Note: There will be four questions in all and candidate has to attempt three exercises.

Total Exercises = 15

1. Introduction to Map Projection: Meaning, Classification and importance; (5)
Characteristics of latitudes and longitudes lines.
2. Cylindrical projections : Characteristics applications and drawing;
 - (i) Simple cylindrical projection
 - (ii) Cylindrical equal area projection.
 - (iii) True shape or orthomorphic or Mercator's Projection.
3. Conical Projections: Characteristics, applications and drawing. (5)
 - (i) Simple conical projections with one standard parallel
 - (ii) Simple conical projection with two standard parallel
 - (iii) Bonne's Projection
 - (iv) Polyconic projection.
 - (v) International Map Projection.
4. Zenithal Projections: Characteristics, applications and drawing. (5)
 - (i) Polar Zenithal Equidistant Projection
 - (ii) Polar Zenithal Equal Area Projection
 - (iii) Polar Zenithal Gnomonic Projection
 - (iv) Polar Zenithal Stereographic Projection
 - (v) Polar Zenithal Orthographic Projection

5. Characteristics, applications and drawings of (2)
(i) Sinosoidal and (ii) Mollweide Projections.
6. Plane Table Survey. (2)

Suggested Readings:-

1. Goyal K.K.1981.. Practical Geography, Manthan Publication, Rohtak.
2. Gregory S. 1963. Statistical Methods and the Geography, Longman, London.
3. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,.
4. Lawrence, G.P.1968. Cartographic Methods, Methuen, London,.
5. Monkhouse, F.J. and Wilkinson, H.R.1994. Maps and Diagrams, Methuen, London,
6. Pal. S.K. 1998: Statistics for Geoscientist- Techniques and Applications, Concept Publication, New Delhi,.
7. Sarkar, A.K 1997: Practical Geography-A Systematic Approach, Orient Longman, Calcutta,.
8. Singh, R.L. 1972. Elements of Practical Geography, Kalyani Pub., New Delhi
9. Steers, J.B. Map Projections; University of London Press, London.

Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory Based (Practical) Subjects

Guidelines for Scheme of examination of UG Course

GEOGRAPHY (HONOURS) B.A. IInd (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal)** for theory based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.
Scheme: 80:20 (external: internal)
1 st question=20 marks (10 short answer type questions of two marks each)
Rest four questions: 15 marks each i.e. 4 x 15=60
Total = (20+60) + 20 = 100marks

Components of Internal Assessment (Breakdown of 20 marks)	
(a)	Class Test: 5 marks
(b)	Assignment: 5 marks
(c)	Participation in Class Discussions: 3 marks
(d)	Term Paper/written test/2 nd assignment: 5 marks
(e)	Attendance: 2 marks*

*Weightage of 2 marks for **Attendance** component out of 20 marks for Internal Assessment shall be available only to those students who attend **75% and more** of classroom lectures. The break-up of marks for **attendance component** for theory papers shall be as under:

- (a) 75% and above up to 85%: 1 mark
- (b) Above 85%: 2 marks

** For Geography Honours (B.A. 2nd), the scheme is also devised for Theory+practical where ever it is applicable. It is explained in Note/Instructions in the syllabi of various courses of Geograhpy Honours

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

(w.e.f. the academic session 2019-20)

Papers --Semester-3rd:

Note: Six papers i.e. four main papers of Geography subject, one English (Compulsory)/Hindi (Compulsory), and one subsidiary paper.

Paper No.	Paper Code	Nomenclature of Paper	Periods per Week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper- A Theory	GEGH 201	Hydrology & Oceanography	6	80	20	---	100	3Hrs
Paper-B Theory	GEGH 202	Regional Geography of World	6	80	20	---	100	3Hrs
Paper-C Theory	GEGH 203	General Cartography	6	40	20	---	60	3Hrs
Paper-D Practical	GEGH 204(P)	General Cartography	6	---	---	40	40	3Hrs
	ENGC 201	English (C) ---Or---	6	80	20	---	100	3Hrs
	HINC 201	Hindi (C)	6	80	20	---	100	3Hrs

Subsidiary Papers --- Semester-3rd:

One subsidiary paper: Same as in 1st Semester (Out of the list provided).

Papers --Semester-4th:

Note: Six papers i.e. four main papers of Geography subject, one English (Compulsory)/Hindi (Compulsory), and one subsidiary paper.

Paper No.	Paper Code	Nomenclature of Paper	Periods per Week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper- A Theory	GEGH 205	Geography of Disasters	6	80	20	---	100	3Hrs
Paper-B Theory	GEGH 206	Economic Geography	6	80	20	---	100	3Hrs
Paper-C Theory	GEGH 207	Morphometric Analysis	6	40	20	---	60	3Hrs
Paper-D Practical	GEGH 208(P)	Morphometric Analysis	6	----	---	40	40	3Hrs
	ENGC 202	English (C) ---Or---	6	80	20	---	100	3Hrs
	HINC 202	Hindi (C)	6	80	20	---	100	3Hrs

Subsidiary Papers --- Semester-4th:

One subsidiary paper: Same as in 1st Semester (Out of the list provided).

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GEOGRAPHY (Honours)

B.A. IInd Year 3rd Semester

PAPER-A (THEORY) GEGH 201 : Hydrology and Oceanography

(w.e.f. the academic session 2019-20)

Maximum Marks : 100

External Marks : 80

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Section - A

1. The world hydrological cycle and its sub cycles, human impact on hydrological cycle.
2. Precipitation types, intensity and duration of rainfall, geographic and seasonal distribution of rainfall.

Section - B

1. Problems of Water Resource management in India (i) water logging (ii) ground water (iii) flood (iv) draught.
2. Conservation practices and planning for the development of water resources.

Section - C

1. Nature of ocean floor: continental shelf, continental slope deep ocean basin and trenches, bottom topography of the Atlantic, Pacific and Indian Oceans.
2. Salinity: sources, controlling factors and distribution of salinity.

Section - D

1. Temperature of oceans: Process of heating and cooling, heat budget of oceans, distribution of temperature on oceans.
2. Ocean currents : Meaning, concept and types, origin and factors affecting ocean currents, currents of Atlantic, Pacific and Indian ocean.

Suggested Readings:

1. Chorley, R.J. 1969. Introduction to Physical Hydrology. Methuen, London.
2. Lal, D.S.2007. Oceanography. Sharda Pustak Bhawan, Allahabad.
3. Sharma, R.C. and Vatal, M.1993. Oceanography for Geographers. Chaitanya Publishing House. Allhabad.
4. Todd. D.K.1980, Groundwater Hydrology. John Wiley, New York
5. Tideman, E.M.1996. Watershed Management: Guidelines for Indian Conditions. Omega, New Delhi.
6. Ward, R.C. 1967.Principles of Hydrology. McGraw Hill, New York.

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GEOGRAPHY (Honours)

B.A. IInd Year 3rd Semester

PAPER-B (THEORY) GEGH 202 : Regional Geography of World

(w.e.f. the academic session 2019-20)

Maximum Marks : 100

External Marks : 80

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Section - A

1. World major physiographic divisions: Mountains, Plains and Plateaus.

Section - B

2. Major river systems of the world and their drainage basins.
3. World Climate and major climatic regions.

Section - C

4. Regional Geography of selected countries:
 - (i) USA
 - (ii) Brazil
 - (iii) China
 - (iv) Australia

Section - D

5. Classification of countries on the basis of development: Developed and developing countries and their characteristics.

Suggested Readings:

1. Hussain, Majid (2006). World Geography. Rawat Publishers, New Delhi.
2. Pounds and Taylor 1974. World Geography (8th edition), South Western Publishing Company, Ohio.
3. Brown, L.(ed) 1994. State of the World, W.W. Norton and Co., New York.
4. Clavel, Paul (ed) 1998. Introduction to Regional Geography, Blackwell.
5. Buchanan, K.et.al. 1981. China: The land and people, Crown Publishers, New York.
6. Bambrick, S.1994. The Cambridge Encyclopedia of Australia, Cambridge Univesity Press, New York.

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GEOGRAPHY (Honours)

B.A. IInd Year 3rd Semester

PAPER-C (THEORY)

GEGH 203 : General Cartography

(w.e.f. the academic session 2019-20)

Maximum Marks : 60

External Marks : 40

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit.
2. The **Compulsory Question No.1 of 10 marks** will be short answer type questions containing *ten* questions of equal marks (i.e., one mark each) spread over the whole syllabus. Other question will carry the 7.5 marks each.

Section - A

1. Representation of Climatic data: graphs and diagrams.
2. Line and bar graph, Rainfall deviation diagram, Climograph (Taylor), Hythergraph, Ergograph, Isometric and isopleths

Section - B

3. Representation of Socio-economic Data by diagrams. Types and properties of diagrams:
One dimensional diagram : Bar diagram: Simple bar, multiple bar and comparative bar.
Two dimensional diagram : pie diagram proportional circle.
Three dimensional diagram: Sphere, cube.

Section - C

4. Distribution maps and diagrams: Choropleth and Dot method

Section - D

5. Miscellaneous diagrams and graphs: Age and Sex pyramid, Flow diagram and cartogram.

Suggested Readings:

1. Monkhouse, F.J. and Wikinson, H.R.: Maps and diagrams. B. I Publications Ltd.
2. Singh, R. L. Elements of Practical Geography. Kalyani Publishers, New Delhi.
3. R.L. Singh and P.K. Dutt 1968, Elements of Practical Geography, Students Friends, Allahabad.
4. Singh Gopal 2004. 4th edition, Map work and Practical Geography, Vikas Publication House.
5. J.P. Sharma Practical Geography, Rastogi Publication, Meerut.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IInd Year 3rd Semester

PAPER-D (Practical)

GEGH 204(P) : General Cartography

(w.e.f. the academic session 2019-20)

Maximum Marks: 40

Time: 3 Hours

Distribution of Marks:

Exercise: 24

Record File: 8

Viva-voce: 8

Note: There will be four questions and candidate has to attempt three questions

Suggested Readings:

1. Monkhouse, F.J. and Wikinson, H.R.: Maps and diagrams. B. I Publications Ltd.
2. Singh, R. L. Elements of Practical Geography. Kalyani Publishers, New Delhi.
3. R.L. Singh and P.K. Dutt 1968, Elements of Practical Geography, Students Friends, Allahabad.
4. Singh Gopal 2004. 4th edition, Map work and Practical Geography, Vikas Publication House.
5. J.P. Sharma Practical Geography, Rastogi Publication, Meerut.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IInd Year 4th Semester

PAPER-A (THEORY)

GEGH 205 : Geography of Disasters

(w.e.f. the academic session 2019-20)

Maximum Marks : 100

External Marks : 80

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Section - A

1. Meaning, concept and classification of Hazards and Disasters.
2. Major disasters of the world and disaster profile of India.
3. Tectonic disasters: Occurrence, geographical distribution and impacts of Earthquakes, Tsunamis, Volcanic eruption and Landslides.

Section - B

1. Hydrological disasters: Occurrence and impact of floods and droughts in India.
2. Climatic disasters: Tropical cyclones, Heavy Precipitation Events-Cloud Burst, Heat and cold waves.
3. Human induced disasters: Epidemics, Industrial Disasters, Nuclear Disasters, wars and terrorism.

Section - C

1. Preparedness for disasters : Case Study of Cyclones and floods in India
2. Mitigation of disasters: Case study of droughts and earthquakes in India.

Section - D

1. Post disaster Rehabilitation-Case Study of Tsunami in India.
2. Impacts of disasters on economy and society in India.

Suggested Readings:

1. Gupta, H.K.2003. Disaster Management. University Press, India.
2. Hewitt, K.1977. Regions of Risk: A Geographical Introduction to Disasters. Longman, Harlow.
3. Singh, R.B.2000. Disaster Management. Rawat Publications, New Delhi.
4. Gupta, M.C.2001. Manual of Natural Disaster Management in India. 11PA, New Delhi.
5. Smith, K.C.1996.Environmental Hazards: Assessing Risk and Reducing Disasters. Routledge, London.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IInd Year 4th Semester

PAPER-B (THEORY)

GEGH 206 : Economic Geography

(w.e.f. the academic session 2019-20)

Maximum Marks : 100

External Marks : 80

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Section - A

1. Nature, scope and relationships of economic geography with economics and other branches of social sciences.
2. Classification of economic activities and their impact on environment

Section - B

1. Types, basis and classification of world natural resources.
2. Conservation and utilization of natural resources.

Section - C

1. Basis and classification of world agricultural types with special reference to Intensive Subsistence Agriculture, Mediterranean agriculture, Dairy farming and Plantation Agriculture.
2. World production and distribution of energy resources: coal, petroleum.

Section - D

1. Classification of industries and basis of location and development of iron and steel industry and cotton textile industry, major industrial complexes of the world.
2. Geographical factors in the development of trade, Major Ocean trade routes of world.

Suggested Readings:

1. Owen, S. and Owens, P.L. 1991. Environment, Resources and Conservation. Cambridge University Press, New York
2. James, D. W. and Muller, P.O. 1988. Economic Geography. John Wiley and Sons, New York.
3. Hartshorne, T. N. and Alexander, J. W. 2009, Economic Geography. New Delhi, Prentice Hall of India.
4. Jones, C.F. and Daockenwald G.G. 1975. Economic Geography. McMillan Company, New York
5. Gautam, A. 2010. Advanced Economic Geography. Sharda Pustak Bhawan, Allahabad.

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GEOGRAPHY (Honours)

B.A. IInd Year 4th Semester

PAPER-C (THEORY) GEGH 207 : Morphometric Analysis

(w.e.f. the academic session 2019-20)

Maximum Marks : 60

External Marks : 40

Internal Marks: 20

Time : 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit.
2. The **Compulsory Question No.1 of 10 marks** will be short answer type questions containing *ten* questions of equal marks (i.e., one mark each) spread over the whole syllabus. Other question will carry the 7.5 marks each.

Section - A

1. Methods of relief representation:
 - (i) Hachure
 - (ii) Hill Shading
 - (iii) Morphographic Method
 - (iv) Spot Height
 - (v) Bench Mark
 - (vi) Form Lines
 - (vii) Contours

Section - B

2. Representation of topographic features by contours
 - (i) Conical hill
 - (ii) Plateau
 - (iii) Convex slope
 - (iv) Concave Slope
 - (v) Escarpment
 - (vi) Cliff
 - (vii) Valley
 - (viii) Water Fall
 - (ix) Gorge
 - (x) U-shaped valley

Section - C

1. Profiles: Serial, Superimposed, Projected, Composite, Longitudinal.

Section - D

1. Delineation of drainage basin.
2. Basin parameters: stream number and order, drainage density and frequency.
3. Relationship between stream order and stream numbers.

Suggested Readings:

1. Monkhouse, F.J. and Wikinson, H.R.: Maps and diagrams. B. I Publications Ltd.
2. Singh, R. L. Elements of Practical Geography. Kalyani Publishers, New Delhi.
3. Singh, R.L. and Dutt, P.K. 1968, Elements of Practical Geography, Students Friends, Allahabad.
4. Singh, G. 2004. 4th edition, Map work and Practical Geography, Vikas Publication House.
5. Sharma, J.P. Practical Geography, Rastogi Publication, Meerut.

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GEOGRAPHY (Honours)

B.A. IInd Year 4th Semester

PAPER-D (PRACTICAL)

GEGH 208(P) : Morphometric Analysis

(w.e.f. the academic session 2019-20)

Maximum Marks:40

Time: 3 Hours

Distribution of Marks:

Exercise: 24

Record File: 8

Viva-voce: 8

Note: There will be four questions and candidate has to attempt three questions.

Suggested Readings:

1. Monkhouse, F.J. and Wikinson, H.R.: Maps and diagrams. B. I Publications Ltd.
2. Singh, R. L. Elements of Practical Geography. Kalyani Publishers, New Delhi.
3. Singh, R.L. and Dutt, P.K. 1968, Elements of Practical Geography, Students Friends, Allahabad.
4. Singh, G. 2004. 4th edition, Map work and Practical Geography, Vikas Publication House.
5. Sharma, J.P. Practical Geography, Rastogi Publication, Meerut.