Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory + Practical Based Subjects

Guidelines for Scheme of examination of UG Course GEOGRAPHY-B.A. Pass course (under semester system)

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)
1st question=10 marks (10 short answer type questions of 1 mark each)
Rest four questions: 10 marks each i.e. 4 x 10=40
Total = (10+40+20) + 30 = 100 marks

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/2nd 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 marks

B.A.-1 Geography (Pass Course) 1st Semester
GEOG – 101: Geography of India

Maximum Marks: 70
External Assessment: 50
Internal Assessment: 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 mark each) spread over the whole syllabus. Other questions will carry the 10 marks each.

SECTION- A

1. India: Location, relief, and drainage systems.
2. Climate, soils, natural vegetation, and natural disasters in India.

SECTION – B

3. Population: distribution, density, growth and composition.
4. Production and Distribution of crops: Rice, Wheat, Cotton and Sugarcane with special reference to Haryana, Green revolution.

SECTION-C

5. Energy resources: coal, petroleum, hydroelectricity, solar, and nuclear energy
6. Mineral resources: iron ore, manganese, aluminium, and mica.

SECTION-D

7. Industries- iron and steel, cotton textile, sugar and industrial regions of India with special reference to Haryana.
8. Transport and communication, Modes of transport: Road, Railway, Water.

Suggested Readings

1. Deshpande, C D: India – A Regional Interpretation, Northern Book Depot, New Delhi,
1992.
2. Singh, Gopal : Geography of India, Atma Ram and Sons, 2006.
3. Shafi, M : Geography of South Asia, McMillan and Company, Calcutta, 2000.
4. Singh, R L (ed) : India : A Regional Geography, National Geographical Society, India,
Varanasi, 1971.
5. Spate, D H K and ATA Learmonth : Indian and Pakistan – Land, People and Economy,
Methnen and Company, London, 1967.

B.A.-1 Geography (Pass Course Practical) 1st Semester
GEOG- 102: Maps, Scales

Maximum Marks: 30
Time: 3 Hours

Distribution of Marks
Exercises = 18
Record File = 6
Viva-voce = 6
Note: There will be four questions in all and candidate has to attempt three questions

1. Introduction to Cartography.	
2. Maps and their types.	
3. Map Scales.	**Exercises**
(i) Methods of Expressing a scale	2
(ii) Conversion of Statement of Scale into R.F. and vice-versa.	1
(iii) Plain Scale (Km and mile)	1
(iv) Comparative Scale	2
(v) Diagonal Scale	2
4 Measurement of Distances and Areas on Maps	2
5 Enlargement and Reduction of Maps	2

Suggested Readings :
1. F.J. Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Mothuen and Co. Ltd., London
2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.
3. R.I. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends, Allahabad.
4. Singh, Gopal (2004) 4th edition, Map Work and Practical Geography, Viksa Publication House.

B.A.-1 Geography (Pass Course) 2nd Semester

GEOG – 103: Physical Geography -Geomorphology

Maximum Marks: 70
External Assessment: 50
Internal Assessment: 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 mark each) spread over the whole syllabus. Other questions will carry the 10 marks each.

SECTION- A

1. Definition, Nature, scope and fields of Physical Geography.
2. Interior of the earth, Geological time scale and rocks.

SECTION- B

3. Earth movements; folds and faults; earth quakes and volcanoes.
4. Theory of Isostasy; Wegner's theory of continental drift and Plate tectonic theory.

SECTION- C

5. Weathering; processes and its types.
6. Mass-movements; causes, its types and impacts.

SECTION- D

7. Cycle of erosion; concepts and theories of W.M. Davis and Penck.
8. Processes and landforms of Wind, River, Underground water, and Glaciers.

References

1. Sharma H.S. Perspective in Geomorphology, Concept, New Delhi 1980.
2. Singh Savinder, Geomorphology, Prayag Publication, Allahabad 1998.
3. Singh Savinder, Physical Geography Prayag Publication, Allahabad, 1998.
4. Sparks B.W. Geomorphology, Jojngman, London, 1960.
5. Thornbury W.D. 1969 Principles of Geomorphology, New York, John Wiley & Sons.

B.A.-1 Geography (Pass Course Practical) 2nd Semester

GEOG- 104: Representation of Physical Features

Maximum Marks: 30
Time: 3 Hours

Distribution of Marks
Exercises = 18
Record File = 6
Viva-voce = 6
Note: There will be four questions in all and candidate has to attempt three questions

	Exercises
1. Introduction to Topographical Sheets India and adjacent countries Degree Sheet Half Degree Sheet Quarter Degree Sheet Conventional Signs	3
2. Methods of representing relief	1
3. Representation of Topographical features by contours. Slopes (Concave, convex, undulating and terraced) Valleys (V Shaped, U shaped, Gorge, Re-entrant) Ridges (Conical hill, Volcanic hill, Plateau, Escarpment) Complex features (waterfall, sea cliff, overhanging cliff, Fiord coast)	4
4. Drawing of Profiles (a) Cross Profiles: Serial, superimposed, projected and composite profiles. (b) Longitudinal profiles	5
5. Chain and Tape Survey.	2

Suggested Readings:

1. F.J. Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Mothuen and Co. Ltd., London
2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central Book Depot, Allahabad.
3. R.I. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends,
Allahabad.
4. Singh Gopal (2004) 4th edition, Map Work and Practical Geography, Viksa Publication House.

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. 1st (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)
1st 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 = 100 marks

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/2nd 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. 1st), 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.

B.A.-1 Geography (Honours) 1st Semester
GEGH – 101: Geomorphology

Maximum Marks: 100
External Assessment: 80
Internal Assessment: 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 mark each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Section - A

1. Definition nature, scope of Geomorphology.
2. Interior of earth and earth movements – folds and faults.

Section – B

3. Wegner's Theory of continental drift and plate tectonics.
4. Cycle of erosion; Concepts and theories of W.M. Davis and W. Penck.

Section – C

5. Weathering; Physical, Chemical and Biological, and importance of weathering.
6. Mass movement; classification, description and Geomorphic significance of mass movement.

Section - D

7. Fluvial Processes and its land forms.
8. Aeolian Process and land forms.
9. Karstgrophic/Underground water and its land forms.
10. Glacial and Periglacial processes and their land forms.

Suggested Readings:

1. Dayal, P; A Text book of Geomorphology. Shukla Book depot, Patna, 1996.
2. Kale V. and Gupta, A: Element of Geomorphology, Oxford University Press, Calcutta, 2001.
3. Monkhouse, F.J.: Principles of Physical Geography. Hodder and Stoughton, London. 1960.
4. Pitty. A: Introduction to Geomorphology, Methuen, London, 1974.
5. Sharma, H.S: Tropical Geomorphology, Concept, New Delhi 1987.
6. Singh, S.: Geomorphology, PrayagPustakalaya, Allahabad, 1998.
7. Sparks, B.W. : Geomorphology, Longmans, London, 1960.
8. Strahler, A.N: Environmental Geo-Science, Hamilton Publishing, Santa Barbara, 1973.
9. Thornbury, W.D.: Principles of Geomorphology, Longman, 1991.
10. Wooldridge, S.W. and Morgan, R.S.: The Physical Basis of Geography-An Outline ofGeomorphology, Longman Green & Co., London, 1959.

B.A.-1 Geography (Honours) 1st Semester

GEGH – 102: Population Geography

Maximum Marks: 100
External Assessment: 80
Internal Assessment: 20
Time: 3 Hours

Note:-

3. 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 mark each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Section - A

1. Nature, Scope and Contents of Population Geography.
2. Sources of Data; Census, Sample Surveys and Civil Registration System.

Section - B

3. Concepts, Determinants and World Regional Pattern of following attributes;
(a) Distribution and Density.
(b) Vital Events: Fertility and Mortality
(c) Migration
(d) Growth

Section - C

4. Composition of Population; Determinants and World Regional Patterns of the followings.
(a) Age and Sex Composition
(b) Rural-Urban Composition
(c) Economic Composition

Section – D

5. Population Problems and Policies in developed and developing countries.
6. Population Problems and Policies in India since independence.

Suggested Readings:

1. Beaujeu, Garnier, J. (1966) Geography of Population, Longman, London.
2. Brooks, S. (1977): The World Population Today (Ethnodemographic Process), USSR Academy of Sciences, Moscow.
3. Cassen, Robert & Bates, Lisa M. (1994) : Population Policy : A NewConsensus Overseas Development Council, Washington, D.C.
4. Chandna, R. C. (1997): JansankhyaBhugol, Kalyani Publishers, New Delhi.
5. Chandna, R. C. (1998): Population, Publishers, New Delhi.
6. Chandna, R. C. (1998): Environmental awareness, Publishers, New Delhi.

7. Chandna, R. C. (1998): a Geography of Population : Concepts, Determinants and Patterns, Publishers, New Delhi.
8. Clarks, John, I. (1971): Population Geography and the Developing Countries, Pergamon Press, New York.
9. Demko, G. J. and others (Eds.) (1971): Population Geography, Reader, McGraw-Hill BooksCo., New York
10. Jones, Huw, R. (1981): A Population Geography, Harper and Row Publishers, London.
11. Petrov, V. (1985): India: Spotlight of Population, Progress Publishers, Moscow.
12. Trewartha, G. T. (1972): The Less Developed Realm-A Geography of its Population, JohnWiley & Sons, Inc., New York.
13. Trewartha, G. T. (1978): The More Developed Realm-A Geography of its PopulationPergamon Press, New York.
14. Woods, R. (1979): Population Analysis in Geography, Longman, London.

B.A.-1 Geography (Honours) 1st Semester
GEGH - 103 : Maps and Scales (Theory)

Maximum Marks: 60
External Assessment: 40
Internal Assessment: 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 60 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., 01 mark each) spread over the whole syllabus. Other questions will carry the 7.5 marks each.

Section - A

1. Introduction to Cartography.
2. Maps, their types and uses.

Section - B

3. Interpretation of topographical maps, degree sheets, half degree sheets and one forth degree sheets and index reading of topographical maps.

Section - C

4. Maps scale, types of scale and uses of scales.
5. Conversion of statement of scale into R.F and vice-versa.

Section - D

6. Scales and their functions.
(i) Notation scale
(ii) Representative scale
(iii) Graphic scales and its construction
(iv) Plane scale, (K.M. and Mile), comparative scales
(v) Diagonal scale
(vi) Vernier scale
(vii) Determining the scale of a map
(viii) Reduction and Enlargement of maps

Suggested Readings:
1. F.J Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Mothuen and Co. Ltd., London
2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central BookDepot, Allahabad.
3. R.I. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends, Allahabad.
4. Singh Gopal (2004) 4th edition, Map work and Practical Geography, Viksa Publication House.

B.A.-1 Geography (Honours) 1st Semester
GEGH - 103 (P): Maps and Scales (Practical)

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. F.J Monkhouse and H.R. Wilkinson (1972) Maps and Diagrams, Mothuen and Co. Ltd., London
2. L.R. Singh and Raghuvander Singh (1973), Map Work and Practical Geography, Central BookDepot, Allahabad.
3. R.I. Singh and P.K. Dutt (1968), Elements of Practical Geography, Students Friends, Allahabad.
4. Singh Gopal (2004) 4th edition, Map work and Practical Geography, Viksa Publication House.

B.A.-1 Geography (Honours) 2nd Semester
GEGH – 104: Climatology

Maximum Marks: 100
External Assessment: 80
Internal Assessment: 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. Atmosphere composition and structure
2. Insolation and Temperature: Factors and distribution

Section - B
3. Atmospheric Pressure: Measurement, horizontal and vertical distribution.
4. Atmospheric circulation: Planetary wind systems, jet streams, monsoons, El Nino and southern oscillations.

Section - C
5. Atmospheric Moisture: Humidity, evaporation, condensation.
6. Precipitation-types and distribution.

Section - D
7. Cyclones: Tropical and extra tropical, air masses and fronts.

8. Climate Change, global warming.

Suggested Readings:
1. Chritch field, H.J. 1974 General Climatology, Prentice Hall, Englewood Cliffs, NJ.
2. Das, PK (1998).The Monsoons, National Book Trust, New Delhi.
3. Pant GB and Kumar KR (1997) Climates of South Asia, John Wiley and Sons, New York.
4. Subrahmanyam V.P. (1983) General Climatology, Heritage Publishers, New Delhi.
5. Trewartha, GT (1981) An Introduction to Climates, Mc-Graw Hill, New York.

B.A.-1 Geography (Honours) 2nd Semester
GEGH – 105: Agricultural Geography

Maximum Marks: 100
External Assessment: 80
Internal Assessment: 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. Definition, nature and scope of agricultural geography; its relation with agricultural economics.
2. Various approaches to the study of agricultural geography with special reference to commodity,systematic and regional approaches.

Section - B
3. Physical factors as determinants of land use and cropping pattern.
4. Technological and institutional factors as determinants of agricultural pattern.

Section - C
5. Significance of surveys in agricultural geography-land use and land capability surveys.
6. Von Thunen Model of agricultural land use.

Section - D
7. World agricultural regions-Whitlesey's Criteria of classification of agricultural systems.
8. Green revolution in India (with special reference to Haryana)– its impacts and consequences.

Suggested Readings:
1. Singh Jasbir and Dhillon SS (1994), Agricultural Geography, Tata Mc.Graw Hill, New Delhi.
2. Husain, Majid (1996), Systemic Agricultural Geography, Rawat Publication, Jaipur.
3. Safi, Mohammad, (2007) Agricultural Geography.
4. Tarrant JR (1974) Agricultural Geography, Wiley, New York.

B.A.-1 Geography (Honours) 2nd Semester
GEGH - 106 : Map Projections (Theory)

Maximum Marks: 60
External Assessment: 40
Internal Assessment: 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 60 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., 01 mark each) spread over the whole syllabus. Other questions will carry the 7.5 marks each.

Section - A
1. Introduction of map Projection: Definition and necessity
2. Properties, classification and importance of map projections.
3. Cylindrical Projections: Construction, characteristics and applications of followings projections.
(a) Simple cylindrical projection
(b) Cylindrical equal area projection
(c) Mercator's

Section - B
4. Conical projections: Construction, characteristics and applications of following projections.
(a) Simple conical projection with one standard parallel
(b) Simple conical projection with two standard parallel
(c) Bonn's conical projection
(d) Polyconic Projection

Section - C
5. Zenithal Projections: Construction, characteristics and applications of following projections.
(a) Polar Gnomonic Zenithal Projection
(b) Polar Stereographic Zenithal Projection
(c) Polar Orthographic Zenithal Projection
(d) Polar Zenithal equidistant projection
(e) Polar Zenithal equal area projection

Section - D
6. Construction, characteristics and applications of
(a) Sinusoidal (Normal and interrupted) Projection
(b) Mollweide's (normal and interrupted) projection

Suggested Readings:
1. Goyal K.K.1981.. Practical Geography, Manthan Publication, Rohtak.

2. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,.
3. Lawarence, GRP1968. Cartographic Methods, Methuen, London,.
4. Monkhouse, F.J. and Wilkinson, H.R1994. Maps and Diagrams, Methuen, London,
5. Singh, R.L. 1972. Elements of Practical Geography, Kalyani Publications, New Delhi
6. Steers, J.B. Map Projections; University of London Press, London.

B.A.-1 Geography (Honours) 2nd Semester
GEGH – 106 (P): Map Projections (Practical)

Maximum Marks: 40
Time: 3 Hours

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

Distribution of Marks:

Exercise: 24
Record File: 8
Viva Voce: 8

Distribution of classroom practical's:

Cylindrical projections:	3 Exercise
Conical projections	4 Exercise
Zenithal projections:	5 Exercise
Conventional projections:	4 Exercise
Chain and Tape Survey	2 Exercise

Suggested Readings:

1. Goyal K.K.1981.. Practical Geography, Manthan Publication, Rohtak.
2. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,.
3. Lawarence, GRP1968. Cartographic Methods, Methuen, London,.
4. Monkhouse, F.J. and Wilkinson, H.R1994. Maps and Diagrams, Methuen, London,
5. Singh, R.L. 1972. Elements of Practical Geography, Kalyani Publications, New Delhi
6. Steers, J.B. Map Projections; University of London Press, London.