

Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory Based (Practical) Subjects

Guidelines for Scheme of examination of UG Course

GEOGRAPHY (HONOURS)

(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. IIIrd Year 5th & 6th Semester

Scheme of Examination

(w.e.f. the academic session 2020-21)

Papers --Semester-5th:

Paper No	Paper Code	Nomenclature of Paper	Periods per week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper-A Theory	GEGH 301	Evolution of Geographic Thought	6	80	20	-----	100	3Hrs
Paper-B Theory	GEGH 302	Geography and Ecosystems	6	80	20	-----	100	3Hrs
Paper-C Theory)	GEGH 303	Remote sensing and GIS(T)	6	40	20	-----	60	3Hrs
Paper- D Practical	GEGH 304(P)	Remote sensing and GIS(P)	6	-----	-----	40	40	3Hrs
Paper- E Theory	GEGH 305	Geography of India	6	80	20	-----	100	3Hrs
Paper- F Theory	GEGH 306	Any One of the followings: (i)Social Geography (Option-I) (ii)Cultural Geography (Option-II) (iii)Political Geography (Option-III) (iv)Geography of Haryana (Option-IV)	6	80	20	-----	100	3Hrs

Papers --Semester-6th:

Paper No	Paper Code	Nomenclature of Paper	Periods per week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper-A Theory	GEGH 307	Statistical Methods in Geography	6	80	20	-----	100	3Hrs
Paper-B Theory	GEGH 308	Regional Development and Planning	6	80	20	-----	100	3Hrs
Paper-C Theory	GEGH 309	Field Survey in Geography (Theory)	6	40	20	-----	60	3Hrs
Paper- D Practical	GEGH 310(P)	Field Survey in Geography (Practical)	6	-----	-----	40	40	3Hrs
Paper- E Theory	GEGH 311	Geography of Settlements	6	80	20	-----	100	3Hrs
Paper- F Theory	GEGH 312	Any One of the followings: (i) Geography of transport (Option-I) (ii) Geography of Tourism (Option-II) (iii) Geography of Health (Option-III) (iv) Soil Geography (Option-IV)	6	80	20	-----	100	3Hrs

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-A (THEORY)

GECH 301 : Evolution of Geographic Thought

(w.e.f. the academic session 2020-21)

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 of Geography and Place of Geography among Sciences, Relation of Geography with natural and social sciences.
2. Contribution of Greeks, Roman, Arab and Indian Scholars in geographical knowledge.

SECTION-B

3. Contribution of Geographers (Bernhards Varenius, Immanuel Kant, Alexander von Humboldt, Carl Ritter, Scheafer & Hartshorne)
4. Environmental Determinism and Possibilism.

SECTION-C

5. Dualism in Geography: (Physical vs Human, Systematic vs Regional, quantitative vs qualitative).
6. Quantitative Revolution and Development of Geography as Spatial Sciences.

SECTION-D

7. Perspective in Geography (Positivism, Behaviouralism, Humanism and Postmodernism)

Suggested Readings:

1. Dikshit, R.D.(ed.) A The Art & Science of Geography Integrated Readings, Prentice Hall of India, New Delhi, 1994.
2. Hartshorne, R.: Perspectives on Nature of Geography, Rand McNally & Co. 1959.
3. Husain, M.: Evolution of Geographic Thought, Rawat Pub., Jaipur, 1984.
4. Johnston, R.J.: Philosophy and Human Geography, Edward Arnold, London, 1983.
5. Johnston, R.J.: the Future of Geography, Methuen, London, 1988.
6. Minshull, R. : The Changing Nature of Geography, Hutchinson University Library, London, 1970.

Guru Jambheshwar University of Science & Technology, Hisar

Geography (Honours)

B.A. IIIrd Year 5th Semester

PAPER-B (THEORY) GEGH 302 : Geography of Ecosystem

(w.e.f. the academic session 2020-21)

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. Ecosystem (Geographic Classification) and Human Ecology, Ecosystem – Concept, Structure and Functions
2. Human-Environment Relationships–Historical Progression and Adaptation

Section - B

3. Ecology Functions: food chain, food web, Tropic levels, energy flows
4. Cycles (geo-chemical, carbon, nitrogen and oxygen)

Section – C

5. Biomes and Habitat: Classification of Biomes. Tropical rainforest biome, Grassland biomes, Monsoon biome and Marine biome.
6. Environmental Problems: Global warming, urban heat island, water pollution with special reference to Indian water resources.

Section – D

7. Environmental Programmes and Policies –National and Local levels
8. Global Environmental concern: Brundtland Commission, Kyoto protocol, agenda 21, Sustainable Development Goals.

Suggested Reading List :

1. Chandna R. C., 2002: Environmental Geography, Kalyani, Ludhiana.
2. Cunningham W. P. and Cunningham M. A., 2004: Principals of Environmental Science: Inquiry and Applications, Tata Macgraw Hill, New Delhi.
3. Goudie A., 2001: The Nature of the Environment, Blackwell, Oxford.
4. Miller G. T., 2004: Environmental Science: Working with the Earth, Thomson Brooks Cole, Singapore.
5. MOEF, 2006: National Environmental Policy-2006, Ministry of Environment and Forests, Government of India.
6. Odum, E. P. et al, 2005: Fundamentals of Ecology, Ceneage Learning India.
7. Singh S., 1997: Environmental Geography, PrayagPustakBhawan. Allahabad.
8. UNEP, 2007: Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme.

Hindi Reading List

1. Singh, Savindra 2001. ParyavaranBhugol, PrayagPustakBhawan, Allahabad. (in Hindi).
2. Singh, Shri Narayan 1993. VatavaranBhugol, Tara Book Agency. (in Hindi).

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-C (THEORY)

GEGH 303 : Remote Sensing and GIS (T)

(w.e.f. the academic session 2020-21)

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. Introduction to Aerial Photographs: their advantages and types.
2. Elements of Air, Photo Interpretation.

SECTION-B

3. Basic of Remote Sensing (Electromagnetic Spectrum, Sensors and Platform, Resolution and Types)
4. Types of Satellites, Indian Remote Sensing Satellites and their data Product (Type of imageries).

SECTION-C

5. Introduction to Geographical information system: Definition, Purpose, Advantages, Hardware and Software requirements.
6. Spatial and Non-spatial Data: their sources and entering in GIS environment.

SECTION-D

7. Application of Remote Sensing in Agriculture Environment and Resource Management.
8. Application of Geographical Information System in Urban, Regional and Real time Planning.

Suggested Readings:

1. Anji Reddy, Remote Sensing and Geographical Information Systems.
2. J.R. Jensen (2009), Remote Sensing of the Environment: An Earth Resource Perspective Pearson Education (LPE), New Delhi.
3. Lillesand and R.W. Kiefer (2005), Remote Sensing and Image Interpretation, John Wiley and Sons.
4. Meenakshi Kumar (2001), 'Remote Sensing, NCERT, New Delhi.
5. Pritvish Nag and M. Kudrat (1998), Digital Remote Sensing, Concept Publication, New Delhi.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-D (Practical)

GEGH 304(P) : Remote Sensing and GIS(P)

(w.e.f. the academic session 2020-21)

Maximum Marks: 40

Time: 3 Hours

Distribution of Marks:

Exercise: 24

Record File: 8

Viva-voce: 8

Note: There will be four questions and candidates have to attempt three questions/exercises.

1. Demarcation of Principal Point, Conjugate Principal Point and Flight line on Aerial Photograph -1 Exercise.
2. Determination of Scale of Photograph-1 Exercise.
3. Interpretation of Single Vertical Photograph-1 Exercise.
4. Use of Stereoscope of Identification of Features -1 Exercise.
5. Identification of Features on PAN+ LISS Imagery (Mark copy of FCC)- 3 exercises.

Suggested Readings:

1. Melinda Meade and R.J. Earichson (2008), Medical Geography, Guilford Press, New York.
2. Peter Hagett (2000) , The Geographical Structure of Epidemics, Oxford.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-A (THEORY)

GEGH 305 : Geography of India

(w.e.f. the academic session 2020-21)

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. India: Location, size and shape; physiographic structure and division; drainage system of India and their importance.
2. Climate: Regional and seasonal variations of climate in India; Indian monsoon (mechanism and characteristics); Climatic regions of India.

SECTION-B

3. Soils and natural vegetation: Soil types-their distribution and characteristics; vegetation types, distribution and importance.
4. Population characteristics (spatial pattern of distribution), growth and composition (rural-urban, age, sex, occupation, educational, ethnic, and religious)

SECTION-C

5. Agriculture: Role of agriculture in Indian Economy; regional variations in cropping pattern; Role of Irrigation in agriculture; problems pertaining to Green Revolution and mitigation strategies.
6. Minerals and power resources: Production and distribution of the following: (1) Iron-ore (2) Mica (3) Coal (4) Petroleum (5) Hydropower

SECTION-D

7. Industries: Factors affecting location of industries; production and distribution of iron and steel industries, cotton-textile industry and Sugar industry; Industrial Complexes of India.
8. Trade: Factors affecting India's trade; Major exports and imports of India, Balance of payments of India's trade.

Suggested Readings:

1. Deshpande, C.D. 1992. India-A Regional Interpretation. Northern Book Depot, New Delhi.
2. Khullar, D.R. 2009. India-A Comprehensive Geography, Kalyani Publishers, New Delhi.
3. Shafi, M. 2000. Geography of South-Asia. McMillan and Company, Calcutta.
4. Sharma, T.C. 2009. Economic and Commercial Geography of India. Vikas Publication, New Delhi.
5. Singh, Gopal, 2006. Geography of India. Atma Ram and Sons, New Delhi.
6. Singh, R.L. 1971. India- A Regional Geography, NGSI, Varansi.
7. Spate, O.H.K. and Learmonth. 1967. India and Pakistan. Methuen and Company, London.
8. Tideman, E.M. 1996. Watershed Management: Guidelines for Indian Conditions, Omega Publications, New Delhi.
9. Tirth, R. and Krishna, G. 1996. Emerging India. Rawat Publications, Jaipur
10. Wadia, D.N. 1967. Geology of India, Macmillan, London.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-B (THEORY)

GEGH 306 : Social Geography (Option-I)

(w.e.f. the academic session 2020-21)

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 and Scope of Social Geography and relationship with other social sciences.
2. Development and Philosophy of Social Geography.

SECTION-B

4. Space and Society: Structure and Processes.
5. Geographical Bases of Social Formations.
6. Social Geography's Contribution in Social Theory.

SECTION-C

7. Social Geography of India-Social Differentiation and Region Formation.
8. Evolution of Socio-cultural Regions in India.
9. Unity and Diversity in India.

SECTION-D

10. Social Transformation and Change in India.
11. Social Wellbeing and Physical Quality of Life.
12. Human Development: Measures and Indications.

Suggested Readings:

1. Ahmad, Aijazuddin, Social Geography, Rawat Publication, New Delhi, 1999.
2. Dreze Jean, AmartyaSen, Economic Development and Social opportunity, Oxford University Press, New Delhi, 1996.
3. Dubey. S.C. : Indian Society, National Book Trust, New Delhi, 1991.
4. Gregory, D and J. Larry, (eds.). Social relations and spatial structures, McMillan, 1985.
5. Schwartzberg Joseph; An Historical Atlas of South Asia, University of Chicago Press, Chicago,1978.
6. Sen, Amartya&Dreze Jean, Indian Development: Selected Regional Perspectives, Oxford University Press, 1996.
7. Smith, David: Geography: A Welfare Approach, Edward Arnold, London, 1977.
8. Sopher, David. : An Exploration of Indian, Cornell University Press, 1980.
9. SubbaRao. Personality of India; Pre and Proto Historic Foundation of India and Pakistan. M. S.University Baroda, Vadodara, 1985.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-C (THEORY)

GEGH 306: Cultural Geography (Option-II)

(w.e.f. the academic session 2020-21)

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.
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. Introduction: Nature and Scope of Cultural Geography.
2. Cultural Elements and Components of Culture.
3. Cultural Changes: Perception and Behavioralism.

SECTION-B

4. Bases of Cultural Diversity: Race, Religion and Language.
5. Cultural Diversity in World.
6. Cultural Diversity and Regionalization in India.

SECTION-C

7. Geography of Ethnic and Tribal Groups.
8. Cultural Landscape and Cultural Ecology.
9. Religion: Origin, diffusion and Spatial Distribution.

SECTION-D

10. Pattern of Livelihood: Economic Activities and Cultural adaptation.
11. Agriculture, Industrialization and Modernization.
12. Technological Changes and Culture.

Suggested Readings:

1. Crang, Mike: Cultural Geography, Routledge Publications, London, 1998.
2. Harmandorf, Tribes of India: The Struggle for Survival, Oxford University Press, Delhi, 1989.
3. Massey, D & Jess P. A Place in the World: Places, Cultures and Globalization Oxford University, New York, 1995.
4. Massey, et.al (ed), Human Geography Today, Polity Press, Combridge, 1999.
5. Mukherjee, A.B. and Aijazuddin, A: India: culture, Society and Economy, Inter-India Publication, New Delhi.
6. Schwartzberg, J.E.: Historical Atlas of South Asia, University of Chicago, 1978.
7. Singh, A.K. : Approaches to Tribal Development, Swarup and Sona, New Delhi, 1994.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-C (THEORY)

GECH 306: Political Geography (Option-III)

(w.e.f. the academic session 2020-21)

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.
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. Introduction, Nature, Scope and Geopolitics.
2. State, Nation and Nation State – Concept of Nation and State, Attributes of State – Frontiers, Boundaries(with special reference to India)

Section-B

3. Global strategic views: Mackinder and Heartland; Spykman and Rimland.
4. Geo-politics of climate change, world resources and Indian Ocean.

Section-C

5. Electoral Geography – Geography of Voting, Geographic Influences on voting pattern, Geography of Representation, Gerrymandering.
6. Electoral reform in India and Determinants of electoral behaviour

Section-D

7. Regional organisation of cooperation (SAARC, ASEAN, OPEC, EU)
8. Neopolitics of world Natural resources

Suggested Reading List:

1. Agnew J., 2002: Making Political Geography, Arnold.
2. Agnew J., Mitchell K. and Toal G., 2003: A Companion to Political Geography, Blackwell.
3. Cox K. R., Low M. and Robinson J., 2008: The Sage Handbook of Political Geography, Sage Publications.
4. Cox K., 2002: Political Geography: Territory, State and Society, Wiley-Blackwell.
5. Gallaher C., et al, 2009: Key Concepts in Political Geography, Sage Publications.
6. Glassner M., 1993: Political Geography, Wiley.
7. Jones M., 2004: An Introduction to Political Geography: Space, Place and Politics, Routledge.
8. Dixit, R.D. 2010: Political Geography
9. Mathur H M and M MCernea (eds.) Development, Displacement and Resettlement – Focus on Asian Experience, Vikas, Delhi.
10. Painter J. and Jeffrey A., 2009: Political Geography, Sage Publications.
11. Taylor P. and Flint C., 2000: Political Geography, Pearson Education.
12. Verma M K (2004): Development, Displacement and Resettlement, Rawat Publications, Delhi
13. Hodder Dick, Sarah J Llyod and Keith S McLachlan (1998), Land Locked States of Africa and Asia (vo.2), Frank Cass.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 5th Semester

PAPER-C (THEORY)

GEGH 306: Geography of Haryana (Option-IV)

(w.e.f. the academic session 2020-21)

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.
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. Haryana: Location, size, shape and administrative division; physical divisions and drainage systems.
2. Climate: Characteristics and factors; seasons; distribution of rainfall and climatic regions.

SECTION-B

3. Soils and natural vegetation: Soil types-their distribution and characteristics; vegetation types, distribution and importance.
4. Human resources: Distribution and density, growth and urbanization.

SECTION-C

5. Agricultural resources: Major crops; Irrigation; new trends in agriculture; problems pertaining to agricultural development and strategy for its advancement.
6. Manufacturing Industries: Major Industries; Industrial policy, SEZ and Foreign investment in Industries.

SECTION-D

7. Transportation: Modes of transportation and road density; significance of Grant Trunk Road in the Economic development of Haryana.
8. Regionalization of Haryana: Concept of region, bases and classification.

Suggested Readings:

1. Census of India. 1981. Regional Division in Haryana.
2. Census of India. 2001. Administrative Atlas of Haryana.
3. Chaudhary, D.R. 2009. Haryana at Crossroads: problems and prospects. National Book Trust of India, New Delhi.
4. Singh, J. 1976. Agricultural Geography of Haryana, Vishal Publication, Kurukshetra.
5. Singh, R.L. 1971. India- A Regional Geography. National Geographical Society of India, Varansi.
6. Verma, D.C. and Singh, S. 2001. Haryana-The Land and People. National Book Trust of India, New Delhi.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-A (THEORY)

GEGH 307 : Statistical Methods in Geography

(w.e.f. the academic session 2020-21)

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. Type of data and descriptive Statistics: visual descriptive methods such as histograms, ogives.
2. Numerical descriptive Statics: measure of Central Tendency and partition values.

SECTION-B

3. Measure of dispersion: Quartile deviation, Mean deviation, Standard deviation.
4. Measure of Inequality: Lorenz Curve.

SECTION-C

5. Continuous Probability Distributions and Models.
6. Properties of Normal Distribution.

SECTION-D

7. Inferential Statistics: confidence Intervals and Hypothesis Testing.
8. Sampling its type and its application in Geographical Studies.

Suggested Readings:

1. AslamMahmood, Statistical Methods for Geographers, Rajesh Publications, New Delhi.
2. Peter A. Rogerson (2010), Statistical Methods for Geography, Sage Publishers.
3. Saroj Kumar Paul, "Statistics for Geoscientists: Techniques and Applications, Concept Publishers, 1998."

Guru Jambheshwar University of Science & Technology, Hisar

Geography (Honours)

B.A. IIIrd Year 6th Semester

PAPER-B (THEORY)

GEGH 308 : Regional Development and Planning

(w.e.f. the academic session 2020-21)

Maximum Marks : 100

External Marks : 80

Internal Marks: 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.
4. 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. Concept of Region, types of Regions.
2. Methods of Regionalization.

SECTION-B

3. Theories of Regional Development: Hirschman and Myrdal's Theory.
4. Regional Imbalances in development in India with spatial reference of human and Economic development.

SECTION-C

5. Concept of Planning: Spatial and Sectoral, Regional and National, Micro and Macro.
6. Environmental Issues in Regional Planning: Planning for Sustainable Development.

SECTION-D

7. Features of Various Five years Plans in India.
8. Urban Planning in India with spatial reference to National Capital Region.

Suggested Readings:

1. R.C. Chandna : Regional Planning and Development.
2. Mahesh Chand and Puri : Regional Planning in India, Allied Publishers, Delhi.
3. S.C. Patnaik, Economics of Regional Development and Planning in Third World Countries, Associated Publishing, New Delhi.
4. V. Nath, Regional Development and Planning in India.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-C (THEORY)

GEGH 309 : A Field Survey in Geography (Theory)

(w.e.f. the academic session 2020-21)

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. Topographical Sheets-1:50,000 and 1:25,000
2. Socio-economic Information on Toposheets.

SECTION-B

3. Significance of Field work in Geography
4. Sources of Demographic and Socio-economic Data of Villages.

SECTION-C

5. Sample Design
6. Use of Structured Questionnaires for Socio-economic Survey.

SECTION-D

7. Analysis of Collected Socio-economic Data,
8. Format of Report writing

Suggested Readings:

1. Har Prasad (1992): Research Methods and Techniques in Geography, Rawat Publishers, Jaipur.
2. Mishra, H.N. and Singh V.P. (ed.) (1998), Research Methodology: Social, Spatial and Policy Dimensions, Rawat Publishers, Jaipur.
3. Goode and Hat, Research Methodology in Social Sciences, Oxford University Press, New Delhi.
4. Black James A and D.J. champion (1976): Methods and Issues in social Research, New York, Jolm Wiley and Sons, Inc.
5. Young, PV. An introduction to research methodology.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-D (Practical)

GEGH 310(P) : Field Survey in Geography (Practical)

(w.e.f. the academic session 2020-21)

Maximum Marks: 40

Time: 3 Hours

Distribution of Marks:

Field Survey Report: 20

Participation in Field Survey: 10

Viva-voce: 10

Students have to carry out compulsory socio-economic field survey of a village/town, analyse and interpret the collected data. Every student has to prepare a field survey report based on the survey.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-A (THEORY)

GEGH 311 : Geography of Settlements

(w.e.f. the academic session 2020-21)

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. Introduction: Nature and Scope of settlement geography. 2. Basic Concepts: Rural and Urban Settlements, Hamlet, Village, Town, City, Metropolis, Megalopolis, Conurbation, and Rural-Urban Fringe.

Section- B

3. Histogenesis of rural settlements: historical development, distribution of rural settlements. Size and spacing of rural settlements in India
4. Rural Settlements: Types, Patterns and Determinants. Functional classification of rural settlements.

Section- C

5. Regional Settlement Hierarchy: Central Place Theory, Rank-Size Rule, Primate City.
6. Urban Land use Models; Concentric zone model, sector model and multiple nuclei model.

Section- D

7. Urban problems: housing, poverty, water supply and sanitation.
8. Planned Cities: A Case Study of Chandigarh – Site and Situation, Layout and Landuse, Services and Infrastructure, Problems.

Suggested Reading List :

1. Chishlom M., 2007: Rural Settlement and Land Use, Transaction Publishers.
2. Daniel, P. 2002: Geography of Settlement, RawatPubls., Jaipur & New Delhi.
3. Ghosh, Santwana 1999: A Geography of Settlements, Orient Longman, Kolkata.
4. Kalia Ravi, 1999: Chandigarh: The Making of Indian City, Oxford University Press.
5. Kaplan D. H., Wheeler J. O. and Holloway S. R., 2008: Urban Geography, John Wiley.
6. Krishan G., 1999: Inner Spaces – Outer Spaces of a Planned City: A Thematic Atlas of Chandigarh, Celebrating Chandigarh.
7. Pacione M., 2009: Urban Geography: A Global Perspective, Taylor and Francis.
8. Ramachandran R., 1989: Urbanisation and Urban Systems of India, Oxford University Press.
9. Ramachandran, R., 1992: The Study of Urbanisation, Oxford University Press, Delhi
10. Singh R. Y., 1994: The Geography of Settlement, Rawat Publication, New Delhi.
11. Tiwari, R. C. 2000: Settlement Geography, (in Hindi), Prayag Publ., Allahabad.
12. Misra, R. P. & Misra, K. eds. 1998: Million Cities of India, Sustainable Development Foundation, New Delhi.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-B (THEORY)

GEGH 312 : Geography of Transport (Option-I)

(w.e.f. the academic session 2020-21)

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, significance and development of transport geography.
2. Factors associated with development of transport system; physical, economic, social cultural and institutional.

SECTION-B

3. Characteristic and relative significance of different modes of transport; railways, roads, airways and waterways.
4. Regional variations in transport density; traffic flow and regional interaction; Bases of spatial interaction.

SECTION-C

5. Transport and location activities; Impact of different aspects of transport on spatial equilibrium of location; problem of location and regional development.
6. Transportation network: Function, pattern and geometry; Models of network change.

SECTION-D

7. Urban transport: Profile of urban transport facilities; traffic in towns; transport services and urban land use pattern.
8. Problems of urban transportation: transportation and environmental degradation; vehicular pollution and congestion; alternative to transport system in Mega-cities.

Suggested Readings:

1. Ashton, W.D. 1966. The Theory of Traffic Flow. Methuen, London.
2. Bhaduri, S. 1992. Transport and Regional Development, Concept Publishing Company, New Delhi.
3. Fleming, D.K. and Hayuth. Y. 1994. Spatial Characteristics of Transportation Hubs. Centrality and Intermediacy. Journal of Transport Geography 2(i) 3-18.
4. Hagget, P. 1965. Locational Analysis in Human Geography. Methuen, London.
5. Hay, A. 1973. Transport Economy, Macmillan, London.
6. Hoyle, B. S. and Knowles, R. 2000, Modern Transport Geography. John Wiley and Sons, New York.
7. Hoyle, B.S. 1973. Transport and Development. Macmillan, London.
8. Husain, M. and Zaidi, S.S.H. 1996. Environmental Management in India. Concept Publications, New Delhi.
9. Nagar, V.D. and Gautam, S. 1984. Principles and Problems of Indian Transport. KailashPustak Sadan, Gwalior.
10. Raza, M and Agarwal Y.P. 1986. Transport Geography of India. Concept Publication, New Delhi.
11. Vaidya, B.C. 1998. Readings in Transport Geography, Devika Publications, New Delhi.
12. White, H.P. and Senior, M.L. 1983. Transport Geography. Longman, London.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-C (THEORY) GEGH 312: Geography of Tourism (Option-II)

(w.e.f. the academic session 2020-21)

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.
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. Nature and Scope – Concepts and Issues, Types of Tourists; Visitor, Traveller, and Excursionist– Definition and differentiation.
2. Tourism, recreation and leisure, their interrelationships.

Section- B

3. Type of Tourism: Nature tourism, Heritage Tourism, Medical Tourism, Pilgrimage.
4. Important Places of Tourism in India and their significance.

Section- C

5. Tourism Infrastructure – Transport, Facilitations and Hospitality Industry.
6. International and Domestic Tourism – Recent Trends.

Section- D

7. Impact of Tourism: On Economy, Environment and Society; Concept of Ecotourism.
8. Problems of Tourism: Social behaviour, maintenance of tourist places, inadequate funding, advertisement and propaganda.

Suggested Reading List:

1. Babu S. S., Mishra S., and Parida B. B. (eds.): *Tourism Development Revisited – Concepts, Issues and Paradigms*, Sage.
2. Bhardwaj et. al. (eds.): *International Tourism: Issues and Challenges*, Kanishka New Delhi.
3. Bhatia, A. K., 1991: *International Tourism: Fundamentals and Practices*, Sterling Publishers, New Delhi.
4. Boniface B. G. and Chris C., 2005: *Worldwide Destinations: The Geography of Travel and Tourism*, Elsevier Butterworth-Heinemann, Oxford.
5. Dhar P. N., 2006: *International Tourism: Emerging Challenges and Future Prospects*, Kanishka, New Delhi.
6. Hall M. and Stephan P., 2006: *Geography of Tourism and Recreation – Environment, Place and Space*, Routledge, London.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-C (THEORY) GEGH 312: Geography of Health (Option-III)

(w.e.f. the academic session 2020-21)

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.
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. Evolution of medical Geography.
2. Concept of Health and its Determinants.

SECTION-B

3. Indicators of Health, its measurement and Data sources.
4. Global Patterns of Health, Mortality and Morbidity.

SECTION-C

5. Food Security and health.
6. Demographic Transition and Health Transition Models.

SECTION-D

7. Health care, Infrastructures, Provisions and Policies in Developed and Developing countries
8. Factors Affecting Regional Variations in Health with Spatial Reference to India.

Suggested Readings:

1. D.M. Smith, (1977), Human Geography: Welfare approach, Arnold Meinman.
2. Melinda Meade and R.J. Earichson (2008), Medical Geography, Guilford Press, New York.
3. Peter Hagett (2000) , The Geographical Structure of Epidemics, Oxford.
4. R.P. Misra (2006), Geography of Health, Concept Publishing.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (Honours)

B.A. IIIrd Year 6th Semester

PAPER-C (THEORY) GEGH 312: Soil Geography (Option-IV)

(w.e.f. the academic session 2020-21)

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.
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. Definition, nature, scope and significance of soil geography; relationship of soil geography and pedology.
2. Soil forming factors: parent material, climate, topographic organic and their spatial temporal dimensions.

SECTION-B

3. Soil Processes: Eluviations, Humification, Classification, salinization, podzolisation.
4. Soil profile: Development and Characteristics of soil profile.

SECTION-C

5. Physical properties of soils: tenure, structure, colour, porosity and permeability.
6. Chemical Properties of soils: soil reaction, Factors of controlling soil reaction, Humus, soil clays, pH and Ec.

SECTION-D

7. Soils and Environment problems: Soil erosion, degradation and conservation; methods to improve the physical qualities of soil.
8. Soil Survey: Modern techniques of soil survey, soil mapping sustainable development of soil resources with reference to India.

Suggested Readings:

1. Buckman, H.O. and Brady N.C. 2000. The Nature and Properties of Soils, Macmillan, New York.
2. Bunting, B.T. 1973. The Geography of Soils. Hutchinson, London.
3. Brikeland, P.W.1984. Soils and Geomorphology. Oxford University Press, London.
4. Daji, J.A. 1990. A Text Book of Soil Science.Asia Publishing House, New Delhi.
5. Foth H.D. and Turk L.M. 1972.Fundamentals of Soils Science. John Wiley, New York.
6. Govinda Rajan, S.V. and GopalaRao, H.G. 1978. Studies of Soils of India.Vikas Publications, New Delhi.
7. Sehgal, J. 2000. Pedology Concepts and Applications.Kalyani Publications, New Delhi.
8. Pitty, A.F. 1978. Geography and Soil Properties. University Press, London.

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. IIIrd Year 5th& 6th Semester

Scheme of Examination

(w.e.f. the academic session 2020-21)

5th Semester

Paper No.	Paper Code	Nomenclature of Paper	Periods per Week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper-A Theory	GEOG 301	Economic Geography	6	50	20	---	70	3Hrs
Paper-B Practical	GEOG (P) 302	Distribution Maps, Diagrams	6	---	---	30	30	3Hrs

6th Semester

Paper No.	Paper Code	Nomenclature of Paper	Periods per Week	External Marks	Internal Marks	Practical	Total Marks	Time
Paper-A Theory	GEOG 303	Introduction to Remote Sensing, GIS & Quantitative Methods	6	50	20	----	70	3Hrs
Paper-B Practical	GEOG (P) 304	Remote Sensing and Field Survey Report	6	----	----	30	30	3Hrs

Guru Jambheshwar University of Science & Technology, Hisar

Geography (Pass Course)

B.A. IIIrd Year 5th Semester

PAPER-A (THEORY)

GEOG 301 : Economic Geography

(w.e.f. the academic session 2020-21)

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. Definition, Nature, scope and approaches of economic geography. Relationship of economic geography with economics and other branches of social sciences.
2. Main concept of economic geography; resources concept and classification; resource and conservation.

Section B

3. factors affecting location of economic activity with special reference to agriculture (Von Thunen Theory), Industry (weber's Theory)

Section C

4. Subsistence and commercial agriculture (rice, wheat, cotton, sugarcane, tea, rubber and coffee)
5. Manufacturing (cotton textile, iron and steel), concept of manufacturing regions, special economic zones and technology parks.

Section D

6. World transportation: major trans-continental railways and sea routes, geo-economic factors in their development.
7. WTO and international trade; patterns and trends; major trade blocks; Effect of globalization on developing countries.

Suggested Readings:

1. Hartshorne TN and Alexander JW. 1988. Economic Geography, Prentice Hall, New Delhi.
2. Jones CF and Darkenwald GG. 1975. Economic Geography. McMillan Company, New York
3. Thomas, RS. 1962. The Geography of Economic Activities. McGraw Hill, New York.
4. Wheeler J et al. 1995. Economic Geography. John Wiley, New York.

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (PASS COURSE)

B.A. IIIrd Year 5th Semester

PAPER-A (PRACTICAL) GEOG(P) 302 : Distribution Maps, Diagrams

(w.e.f. the academic session 2020-21)

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. Principal of map design and layout
2. Symbolization: point, line and area symbol
3. Lettering and toponomy
4. Mechanics of map construction
5. Distribution maps
 - (i) Qualitative distribution maps
 - Choroschematic maps- 1 Exercise
 - Chorochromatic maps- 2 Exercise
 - (ii) Quantitative distribution Maps
 - Isopleth maps-3 Exercises
 - Choropleth maps-3 Exercises
 - Dot maps-3 Exercises
 - Diagrammatic maps- 3 Exercises.
6. Prismatic Compass Survey – 2 Exercises.

Suggested readings:

1. Mishra RP and Ramesh A. 1999. Fundamentals of Cartography, Concept Publishing Company, New Delhi.
2. Monkhouse FJ and Wilkinson HR. 1972. Maps and Diagrams, Methuen Press, London
3. Singh Gopal. 2004. Map Work and Practical Geography, Vikas Publication House, New Delhi.
4. Singh RL. 1979. Elements of Practical Geography, Kalyani Publishers, New Delhi

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (PASS COURSE)

B.A. IIIrd Year 6th Semester

PAPER-A (THEORY) GEOG 303 : Introduction to Remote Sensing, GIS & Quantitative Methods

(w.e.f. the academic session 2020-21)

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. Introduction to Aerial Photographs: their advantages and types.
2. Elements of aerial Photo interpretation.

Section-B

3. Basic of Remote Sensing (Electromagnetic Spectrum, Sensors and Platform, Resolution and Types)
4. Development of Remote Sensing Technology; Types of Imageries and its use in Natural resources management India

Section-C

5. Introduction to Geographical Information System: Definition, purpose, advantages and software and hardware requirements.
6. Application of GIS in various fields of geography.

Section-D

7. Measure of Central Tendency: Mean, Median and Mode.
8. Measure of Dispersion: Range, Quartile deviation and Mean deviation, Standard deviation, Coefficient of variation.

Suggested Readings:

1. AslamMahmood 1993. Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi,.
2. John R. Jensen 2009. Remote Sensing of the Environment;, An Earth Resource Perspective, Pearson Education, (India Edition) New Delhi,
3. Kumar Meenakshi 2001. Remote Sensing, NCERT, New Delhi,
4. Lillesand and R.W.Kiefer,2005. Remote Sensing and Image Interpretation, John Wiley and Sons. PritvishNag, and M.Kudrat 1998. Digital Remote Sensing, Concept Publishing Company, New Delhi,

Guru Jambheshwar University of Science & Technology, Hisar

GEOGRAPHY (PASS COURSE)

B.A. IIIrd Year 6th Semester

PAPER-A (PRACTICAL) GEOG(P) 304 : Remote Sensing and Field Survey Report

(w.e.f. the academic session 2020-21)

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. Demarcation of Principal Point, Conjugate Principal point and Flight line on Aerial Photographs – 1 Exercise
2. Determination of Scale of Aerial Photographs – 1 Exercise.
3. Interpretation of Single Vertical Photographs – 1 Exercise.
4. Use of Stereoscope and Identification of Features – 1 Exercise.
5. Identification of Features on IRSID, LISS III imagery (Mark copy of FCC) -1 Exercise.
Socio-economic Survey and Report Writing -15 marks.
Field Survey Report = 10 marks
Viva-voce = 04 marks

Suggested readings:

1. Singh RL. 1979. Elements of Practical Geography, Kalyani Publishers, New Delhi
2. John R. Jensen, Remote Sensing of the Environment; An Earth Resource Perspective, Pearson Education, (India Edition) New Delhi, 2009.
3. Lillesand and R.W.Kiefer, Remote Sensing and Image Interpretation, John Wiley and Sons, 1994.
4. Kumar Meenakshi 2001. Remote Sensing, NCERT, New Delhi,