

Date: July 15, 2020

Scheme of Examination for Bachelor of Arts with Geography (Pass Course)
Choice Based Credit System (CBCS)
(w.e.f. 2020-21)

Semester	Paper Code		Subject	Type of Course	Contact Hours per Week				Credit				Examination Scheme			Total
					T	P	Tut.	Total	T	P	Tut.	Total	T	IA	P	
Semester-I	20 UGEO 101	Theory	Geography of India	CC	4		-	8	4		-	6	60	15		100
		Practical	Basic Cartography (Practical)			4				2					25	
Semester-II	20 UGEO 201	Theory	Economic Geography	CC	4		-	8	4		-	6	60	15		100
		Practical	Statistical Techniques & Representations of Socio-economic Data			4				2				25		
Semester-III	20 UGEO 301	Theory	Physical Geography	CC	4		-	8	4		-	6	60	15		100
		Practical	Topographical Sheets & Map Projections			4				2				25		
Semester-IV	20 UGEO 401	Theory	Human Geography	CC	4		-	8	4		-	6	60	15		100
		Practical	Chain and Tape, Plane Table & Prismatic Compass Survey			4				2				25		





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Semester-V	20 UGEO 501	Discipline Specific Elective Course (Theory)	Geomorphology	DSEC	4	-	8	4	-	6	60	15	100			
	20 UGEO 502		Environmental Geography													
	20 UGEO 503		Population Geography													
	20 UGEO 504		Regional Geography of Asia													
	Practical		Remote Sensing & GIS	CC	4	2	25									
Semester-VI	20 UGEO 601	Discipline Specific Elective Course (Theory)	Climatology	DSEC	4	-	8	4	-	6	60	15	100			
	20 UGEO 602		Agricultural Geography													
	20 UGEO 603		Urban Geography													
	20 UGEO 604		Geography of Haryana													
	Practical		Field Survey	CC	4	2	25									
Total					24	24	-	48	24	12	-	36	360	90	150	600



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20 UGEO 701 OEC	Open Elective Course	General Geography of India	OEC	5	-	1	6	5	-	1	6	80	20	0	100
20 UGEO 702 OEC	Open Elective Course	Introduction to Geography	OEC	5	-	1	6	5	-	1	6	80	20	0	100

T: Theory

P: Practical

Tut. Tutorial

IA: Internal Assessment

CC: Core Course

DSEC: Discipline Specific Elective Course

OEC: Open Elective Course

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Syllabi for Under-Graduate Geography: Pass Course SEMESTER I to VI (w.e.f. 2020-21)



B.A. Geography (Pass Course)
Semester I

Name of Paper: **Geography of India**
Paper Code: **20 UGEO 101**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: *The basic aim of the course is to provide comprehensive understanding of the geographical profile of India and establishing linkages with systematic and regional geography. Along with this course also provides understanding about geographical attributes in determining social and economic structure of the country.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Geographical Location, Physiography, Structure and Drainage Systems; Climate, Soils and Natural Vegetation.

Unit II

Population: Size, Growth, Distribution, Density & Composition; Migration: Types and Recent Trends.

Unit III

Indian Agriculture: Characteristics, Green Revolution and Problems of Indian Agriculture; Energy Resources: Coal, Petroleum, Hydroelectricity and Nuclear Energy.

Unit IV

Mineral & Industries: Iron Ore, Manganese, Iron and Steel, Cotton Textile, and Sugar Industries; Transportation Modes: Roads and Rail.

Suggested Readings (English)

1. Johnson, B. L. C. ed. (2001). *Geographical dictionary of India*. New Delhi: Vision Books.
2. Pathak, C. R. (2003). *Spatial structure and processes of development in India*. Kolkata: Regional Science Assoc.
3. Ranjit, T. (2002). *Geography of India*. Jaipur: Rawat Publications.
4. Singh, R. L. (1971). *India: A regional geography*. Varanasi: National Geographical Society of India.
5. Singh, J. (2003). *India - A comprehensive & systematic geography*. Gorakhpur: Gyanodaya Prakashan.



6. Tiwari, R. C. (2007). *Geography of India*. Allahabad: Prayag Pustak Bhawan.

Suggested Readings (Hindi)

1. चौहान, डी.एस. (2011). *भारत का भूगोल*. जयपुर: रितु प्रकाशन
2. बंसल, एस.सी. *भारत का वृहत भूगोल*. मेरठ: मीनाक्षी प्रकाशन.
3. देशपांडे, सी. डी. (1992). *भारत: एक क्षेत्रीय व्याख्या*. नई दिल्ली: नॉर्दन बुक डिपो.
4. मामोरिया, सी. (2018). *भारत का वृहत भूगोल*. उत्तर प्रदेश: साहित्य भवन.
5. सिंह, जी. (2006). *भारत का भूगोल*. नई दिल्ली: आत्मा राम एंड संस.
6. सिंह, आर. एल. (एड). (1971). *भारत एक क्षेत्रीय भूगोल*. वाराणसी: नेशनल जियोग्राफिकल सोसायटी, भारत.
7. सिंह, एस. और सरोहा, जे. (2014). *भारत का भूगोल*. नई दिल्ली: एक्सेस पब्लिशिंग इंडिया प्रा. लिमिटेड.
8. शफी, एम. (2000). *दक्षिण एशिया का भूगोल*. कलकत्ता: मैकमिलन एंड कंपनी.
9. हुसैन, एम. (1992). *भारत का भूगोल*. नई दिल्ली: टाटा मैकग्रा हिल एजुकेशन.



B.A. Geography (Pass Course)

Semester I

Name of Paper: **Basic Cartography (Practical)**

Maximum Marks: 25

Exercises: 15

Record Book: 5

Viva-Voce: 5

Max. Time: 3 hrs.

Objective: *Geography is an amalgam of physical as well as social sciences. This course aims to provide basic understanding of particular techniques of drawing cartograms to show physical, climatic and socio-economic attributes of a region. To achieve this objective, the concept of scale is to be understood at the initial stage of learning.*

Note: There shall be four questions, two from each unit; students will have to attempt two questions selecting one question from each unit. All question shall carry equal marks.

Unit I

Introduction to Cartography, History of Cartography and Map making; Maps and their Types;
Map Scales: Methods of Expressing a Scale, Conversion of Statement of Scale into R.F. and Vice
Versa

Types of Scale:

- (i) Plain Scale
- (ii) Comparative Scale
- (iii) Diagonal Scale
- (iv) Measurement of Distance and Area on Map
- (v) Fraction and Conversion of Scale

Representation of Landforms and Relief:

Contours, Hachures, Convex and Concave Slope, Waterfall, Cliff etc.

Unit II

Types of Cartographic Symbols and their uses:

1. Point (Dot & Circle)
2. Sphere & Cube

Distributional Maps:

1. Isopleth
2. Choropleth

Cartogram:

1. Traffic Flow
2. Wind Rose



Suggested Readings (English)

1. Goyal, K. K. (1981). *Practical geography*. Rohtak: Manthan Publication.
2. Gupta, K. K., & Tyagi, V. C. (1992). *Working with map, survey of India*. New Delhi: DST.
3. Khan, A. A. (1996). *Text book of practical geography*. New Delhi: Concept.
4. Lawrence, G. R. P. (1968). *Cartographic methods*. London: Methuen.
5. Monkhouse, F. J., & Wilkinson, H. R. (1972). *Maps and diagrams*. London: Methuen and Co. Ltd.
6. Robinson, A. H. (2009). *Elements of cartography*. New York: John Wiley and Sons.
7. Singh, R. L., & Singh, R. (1973). *Map work and practical geography*. Allahabad: Central Book Depot.
8. Singh, R. L., & Dutt, P. K. (1968). *Elements of practical geography*. Allahabad: Students Friends.
9. Singh, R. L. (1972). *Elements of practical geography*. New Delhi: Kalyani Publications.
10. Singh, R. L., & Singh, R. P. B. (1999). *Elements of practical geography*. New Delhi: Kalyani Publishers.
11. Sarkar, A. (2015). *Practical geography: A systematic approach*. New Delhi: Orient Black Swan Private Ltd.
12. Shekhar R. (2015). *Designing thematic map*. New Delhi: R.K. Books

Suggested Readings (Hindi)

1. सिंह. ए. (2014). *प्रायोगिक भूगोल*. उत्तर प्रदेश: साहित्यिक बुक पब्लिकेशन.
2. सिंह, आर. एल., और सिंह, आर. पी. बी. (2008). *प्रायोगिक भूगोल के मूल तत्व*. नई दिल्ली: कल्याणी प्रकाशक.
3. सिसोदिया, एम. एस. (2019). *प्रायोगिक भूगोल*. भोपाल: कैलाश पुस्तक सदन.
4. शर्मा, जे. पी. (2010). *प्रायोगिक भूगोल*. मेरठ: रस्तोगी पब्लिशर्स.
5. शर्मा, पी. के., और मिश्रा, आर. एन. (2019). *प्रायोगिक भूगोल*. जयपुर: रावत प्रकाशन.



B.A. Geography (Pass Course)

Semester II

Name of Paper: **Economic Geography**
Paper Code: **20 UGEO 201**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: *Main objective of this course to provide the basic understanding of spatial organization of economic activities, their types and basic determents.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Nature and Scope of Economic Geography; Relation of Economic Geography with other Branches of Social Sciences; Location and spatial Organization of Economic Activities.

Unit II

Classification of Economic Activity: Primary, Secondary and Tertiary; Models in Geography: Von-Thunen's Model of Agricultural Location and Edward Ullman's Model of Spatial Interaction

Unit III

World Natural Resources: its Types, Utilization and Conservation. Spatial Distribution of Food Crops (Rice and Wheat) and Commercial Crops (Cotton and Sugarcane) with Special Reference to India.

Unit IV

Trade and Transport: Main Features of International Trade; Transport Cost, Accessibility and Connectivity; Major Oceanic Routes of the World.

Suggested Readings (English)

1. Dubey, R. N. (1974). *Economic geography of India*. Allahabad: Kitab Mahal.
2. Gautam, A. (2010). *Advanced economic geography*. Allahabad: Sharda Pustak Bhawan.
3. Guha, J. L., & Chattroj, P. R. (1994). *Economic geography: A study of resources*. Calcutta: The World Press Pvt. Ltd.
4. Hartshorne, T. N., & Alexander, J. W. (2009). *Economic geography*. New Delhi: Prentice Hall of India.
5. Hudson, R. (2005). *Economic geography*. New Delhi: Sage Publication.
6. Jones, C. F., & Daockenwald, G. G. (1975). *Economic geography*. New York: McMillan Company.
7. Knox, P. (2003). *The geography of world economy*. London: Arnold.
8. Saxena, H. M. (2013). *Economic geography*. Jaipur: Rawat Publication.





Suggested Readings (Hindi)

1. गर्ग. एच. एस., और सिंह, ए. (2015). *आर्थिक भूगोल*. आगरा: एसबीपीडी प्रकाशन.
2. ममोरिया. सी. (2019). *आर्थिक भूगोल*. आगरा: साहित्यिक बुक पब्लिकेशन.
3. सिसोदिया, स. स. (2015). *आर्थिक भूगोल*. भोपाल: कैलाश पुस्तक सदन प्रकाशक.
4. सक्सेना एच.एम., सक्सेना आर., सक्सेना पी., और अग्रवाल, एल.सी. (2019). *आर्थिक भूगोल*. जयपुर: राजस्थान हिंदी ग्रंथ अकादमी.
5. शुक्ला, आर. (2017). *आर्थिक भूगोल*. नई दिल्ली: अर्जुन पब्लिकेशन हाउस.



B.A. Geography (Pass Course)

Semester II

Name of Paper: **Statistical Techniques & Representations of Socio-economic Data (Practical)**

Maximum Marks: 25

Exercises: 15

Record Book: 5

Viva-Voce: 5

Max. Time: 3 hrs.

Objective: To provide basic understanding to the students about basic statistical techniques and representation of socio-economic data on map with the help of various diagram.

Note: There shall be four questions, two from each unit; students will have to attempt two questions selecting one question from each unit. All question shall carry equal marks.

Unit I

Statistical techniques: Measures of Central Tendency: Mean, Median, Mode; Measures of Dispersion: Range, Mean Deviation, Quartile Deviation, Standard Deviation.

Unit II

Socio-Economic Data: Types of data, Source of Socio-economic data: Primary, Secondary

Representation of Socio-economic data: Simple Line graph, Simple Bar graph, Simple pie chart.

Suggested Readings (English)

1. Dikshit, R. D. (2003). *The art and science of geography: Integrated readings*. New Delhi: Prentice-Hall of India.
2. Mukherjee, N. (1993). *Participatory Rural Appraisal: Methodology and Application*. Concept New Delhi: Publs. Co.
3. Mukherjee, N. (2002). *Participatory Learning and Action: with 100 Field Methods*. New Delhi: Concept Publs. Co.
4. Singh, R. L., & Dutt, P. K. (1968). *Elements of practical geography*. Allahabad: Students Friends.
5. Sharma, J. P. (2008). *Practical geography*. Meerut: Rastogi Publication.





Suggested Readings (Hindi)

1. सिंह. ए. (2014). प्रायोगिक भूगोल. उत्तर प्रदेश: साहित्यिक बुक पब्लिकेशन.
2. सिंह, आर. एल., और सिंह, आर.पी.बी. (2008). प्रायोगिक भूगोल के मूल तत्व. नई दिल्ली: कल्याणी प्रकाशक.
3. सिसोदिया, एम. एस. (2019). प्रायोगिक भूगोल. भोपाल: कैलाश पुस्तक सदन.
4. शर्मा, जे. पी. (2010). प्रायोगिक भूगोल. मेरठ: रस्तोगी पब्लिशर्स.
5. शर्मा, पी. के., और मिश्रा, आर. एन. (2019). प्रायोगिक भूगोल. जयपुर: रावत प्रकाशन.



B.A. Geography (Pass Course)

Semester III

Name of Paper: **Physical Geography**
Paper Code: **20 UGEO 301**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: *Main objective of this course is to introduce the students to basic and fundamental concepts of physical geography and geomorphology.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Definition, Nature, Scope and Fields of Physical Geography; Geological Time Scale and Rocks; Earth Movements: Orogenic and Epeirogenic.

Unit II

Fundamental Concepts of Geomorphology; Earthquakes and Volcanoes; Weathering and Mass Movements; Process and Landforms of Wind and Running Water.

Unit III

Weather and Climate, Origin, Composition and Structure of Atmosphere, Monsoon, Jet Stream, EL-NINO, LA-NINA Phenomena.

Unit IV

Configuration of Ocean Floor and Surface Relief of Pacific, Atlantic, and Indian ocean; Temperature and Salinity of Oceans; Tide, Waves, and Oceanic Currents; Circulation in Pacific, Atlantic and Indian Ocean.

Suggested Readings (English)

1. Husain. M. (2007). *Fundamentals of physical geography*. Jaipur: Rawat Publications.
2. Sharma, H. S. (1980). *Perspective in geomorphology*. New Delhi: Concept.
3. Singh, S. (1998). *Geomorphology*. Allahabad: Prayag Publication.
4. Singh, S. (1998). *Physical geography*. Allahabad: Prayag Publication.
5. Sparks, B. W. (1960). *Geomorphology*. London: Longman.
6. Thornbury, W. D. (1969). *Principles of geomorphology*. New York: John Wiley & Sons.





Suggested Readings (Hindi)

1. जाट, बी. सी. (2004). *भू आकृति विज्ञान*. जयपुर: रावत प्रकाशन.
2. सिंह, एस. (2019). *भौतिक भूगोल*. इलाहाबाद: प्राकृत प्रकाशक.
3. सिंह, एस. (2000). *भौतिक भूगोल*. इलाहाबाद: प्रयाग पुष्पक भवन.
4. सिंह, एस. (2004). *भू आकृति विज्ञान*. इलाहाबाद: प्रयाग पुष्पक भवन.
5. हुसैन, एम. (2008). *भौतिक भूगोल*. जयपुर: रावत प्रकाशन.



B.A. Geography (Pass Course)

Semester III

Name of Paper: **Topographical Sheets & Map Projections (Practical)**

Maximum Marks: 25

Exercises: 15

Record Book: 5

Viva-Voce: 5

Max. Time: 3 hrs.

Objective: *Topographical Sheets & Map projections are necessary for accurate transformation of 3D Earth to 2D surface. The aim of this course is to develop basic understanding of Topographical Sheets, their interpretation and selection of suitable projection for map making.*

Note: There shall be four questions, two from each unit; students will have to attempt two questions selecting one question from each unit. All questions shall carry equal marks.

Unit I

Introduction to Topographical Sheets; India and Adjacent Countries: Degree Sheet, Half Degree Sheet, Quarter Degree Sheet, Conventional Signs.

Interpretation of Topographical Sheets of Survey of India:

- i. Relief
- ii. Drainage
- iii. Vegetation
- iv. Transport Network
- v. Human Settlements

Unit II

Introduction to Map Projections: Meaning, Classification and their Importance.

Construction of following Map Projections:

- i. Cylindrical Projections: Simple, Equal Area, Orthomorphic / Mercator's Projection
- ii. Conical Projections: Simple, One Standard Parallel, Two Standard Parallel, Polyconic.
- iii. Zenithal Projections: Polar (Equidistant, Equal Area)
- iv. International Map Projection

Suggested Readings (English)

1. Goyal, K. K. (1981). *Practical geography*. Rohtak: Manthan Publication.
2. Khan, A. A. (1996). *Textbook of practical geography*. New Delhi: Concept.



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3. Lawrence, G. R. P (1968). *Cartographic methods*. London: Methuen
4. Monkhouse, F. J., & Wilkinson, H. R. (1994). *Maps and diagrams*. London: Methuen.
5. Singh, R. L. (1972). *Elements of practical geography*. New Delhi: Kalyani Publications.
6. Sharma, J. P. (2008). *Practical geography*. Meerut: Rastogi Publication.
7. Shekhar R. (2015). *Designing thematic map*. New Delhi: R.K. Books,

Suggested Readings (Hindi)

1. सिंह. ए. (2014). *प्रायोगिक भूगोल*. उत्तर प्रदेश: साहित्यिक बुक पब्लिकेशन.
2. सिंह, आर. एल., और सिंह, आर.पी.बी. (2008). *प्रायोगिक भूगोल के मूल तत्त्व*. नई दिल्ली: कल्याणी प्रकाशक.
3. सिसोदिया, एम. एस. (2019). *प्रायोगिक भूगोल*. भोपाल: कैलाश पुस्तक सदन.
4. शर्मा, जे. पी. (2010). *प्रायोगिक भूगोल*. मेरठ: रस्तोगी पब्लिशर्स.
5. शर्मा, पी. के., और मिश्रा, आर. एन. (2019). *प्रायोगिक भूगोल*. जयपुर: रावत प्रकाशन.



B.A. Geography (Pass Course)

Semester IV

Name of Paper: **Human Geography**
Paper Code: **20 UGEO 401**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: *This course aims to acquaint the students with nature of man-environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living, to identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues faced by the global community.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Human Geography: Definition, Nature, Scope, Approaches, Major Branches, Contemporary Relevance.

Unit II

Human Races: Classification and Distribution; Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region – Bushman (iii) Plateau – Gonds (iv) Mountains – Gujjars.

Unit III

Distribution of Population, Factor Affecting the Distribution of Population; Population Resource Regions and Growth of Population; Human Migration: Causes and Consequences

Unit IV

Human Settlement: Origin, Growth and Distributional Pattern of Rural and Urban Settlements. Functions and Characteristics of Rural & Urban Settlements and their Problems.

Suggested Readings (English)

1. Carr, M. P. (1987). *Process and change in human geography*. London: McMillan Education.
2. Chandna, R. C. (1986). *A Geography of population: Concepts, determinants and patterns*. New Delhi: Kalyani Publishers.
3. DeBlij, B. D. *Human geography*. New York: John Wiley and Son.
4. Johnston, R., Gregory, D., & Pratt, G. et al. (2008). *The dictionary of human geography*. Chichester: Blackwell Publication.
5. Jordan, B. et al. (2006). *The human mosaic: A thematic introduction to cultural geography*. New York: W. H. Freeman and Company.





Suggested Readings (Hindi)

1. कौशिक, एस. डी. (2010). *मानव भूगोल*. मेरठ: रस्तोगी प्रकाशन।
2. बसंत, एस. (2017). *मानव भूगोल*. नई दिल्ली: अर्जुन प्रकाशन गृह.
3. मौर्य, एस. डी. (2012). *मानव भूगोल*. इलाहाबाद: शारदा पुस्तक भवन.
4. सिंह, एम. के. (2016). *मनाव भूगोल का स्वरूप*. इलाहाबाद: प्रवालिका प्रकाशन.
5. हुसैन, एम. (2012). *मानव भूगोल*. जयपुर: रावत प्रकाशन.



B.A. Geography (Pass Course)

Semester IV

Name of Paper: **Chain and Tape, Plane Table & Prismatic Compass Survey (Practical)**

Maximum Marks:25

Exercises:15

Record Book:05

Viva-Voce:05

Max. Time: 03 hrs.

Objective: *The main aim of this course is to provide the basic understanding about different types of surveying instruments and their application in geographical mapping.*

Note: There shall be four questions, two from each unit; students will have to attempt two questions selecting one question from each unit. Each question shall carry equal marks.

Unit I

Chain and Tape Survey: Plan Preparation; Fixing of Chains; Methods: Open and Close Traverse, Triangulation.

Unit II

Plane Table Survey: Plan Preparation, Methods: Radiation and Intersection; Two Point and Three Point Problems; Error Correction.

Prismatic Compass Survey: Method, Correction of Bearing, Removal of Error

Suggested Readings (English)

1. Goyal, K. K. (1981). *Practical geography*. Rohtak: Manthan Publication.
2. Khan, A. A. (1996). *Textbook of practical geography*. New Delhi: concept.
3. Lawrence, G. R. P (1968). *Cartographic methods*. London: Methuen
4. Monkhouse, F. J., & Wilkinson, H. R. (1994). *Maps and diagrams*. London: Methuen.
5. Singh, R. L. (1972). *Elements of practical geography*. New Delhi: Kalyani Publications.
6. Sharma, J. P. (2008). *Practical geography*. Meerut: Rastogi Publication.

Suggested Readings (Hindi)

1. सिंह. ए. (2014). *प्रायोगिक भूगोल*. उत्तर प्रदेश: साहित्यिक बुक पब्लिकेशन.
2. सिंह, आर. एल., और सिंह, आर.पी.बी. (2008). *प्रायोगिक भूगोल के मूल तत्त्व*. नई दिल्ली: कल्याणी प्रकाशक.
3. सिसोदिया, एम. एस. (2019). *प्रायोगिक भूगोल*. भोपाल: कैलाश पुस्तक सदन.





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4. शर्मा, जे. पी. (2010). *प्रायोगिक भूगोल*. मेरठ: रस्तोगी पब्लिशर्स.
5. शर्मा, पी. के., और मिश्रा, आर. एन. (2019). *प्रायोगिक भूगोल*. जयपुर: रावत प्रकाशन.



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B.A. Geography (Pass Course)
Semester V

Name of Paper: **Geomorphology**
Paper Code: **20 UGEO 501**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: *Main objective of this course to provide the basic understanding of earth surface processes, structure, landscape evolution and importance for human being.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Nature and Scope of Geomorphology; Fundamental Concepts; Plate Tectonics; Theory of Isostasy; Pratt and Airy; Geological Time Scale.

Unit II

The Earth's Interior; Endogenetic Forces: Folds and Faults and Associated Topography; Volcanoes and Earthquakes.

Unit III

Exogenetic Forces: Weathering and Mass Wasting; Erosional and Depositional Landforms associated with of Fluvial Processes, Aeolian and Glacial; Cycle of Erosion: Davis and Penck.

Unit IV

Application of Geomorphology: Natural Hazards (Landslides, Floods, Earthquakes, and Tsunamis), Hydrology, Engineering Geology, Construction Activities & Regional Planning.

Suggested Readings (English)

1. Bloom, A. L. (1992). *Geomorphology*. New Delhi: Prentice Hall of India.
2. Douglass, W. B., & Robert, S. A. (2001). *Tectonic geomorphology*. New York: Blackwell Science Inc.
3. Enayat A. (1982). *Physical geography*. Ludhiana: Kalyani Publishers.
4. Thornbury, W. (1990). *Principles of geomorphology*. New York: John Wiley.
5. Woodlidge, S. W., & Morgan, R. S. (1959). *An outline of geomorphology*. London: Orient Longmans.

Suggested Readings (Hindi)

1. गुप्ता, एस. एल. (2008). *भू आकृति विज्ञान: भू भौतिकी तथा भूआकृतियाँ*. नई दिल्ली: हिंदी माध्यम कार्यान्वय निदेशालय, दिल्ली विश्वविद्यालय.
2. गौतम, ए. (2015). *भू-आकृति विज्ञान*. मेरठ: रस्तोगी प्रकाशन.
3. जाट, बी. सी. (2004). *भू आकृति विज्ञान*. जयपुर: रावत प्रकाशन.
4. जाट, बी. सी. (2019). *भौतिक भूगोल (तीसरा संस्करण)*. जयपुर: रावत प्रकाशन.





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5. दयाल, पी. (2014). भू-आकृति विज्ञान (5वां संस्करण). नई दिल्ली: राजेश प्रकाशन.
6. सिंह, एस. (2000). भौतिक भूगोल. इलाहाबाद: प्रयाग पुस्तक भवन.
7. सिंह, एस. (2004). भू आकृति विज्ञान. इलाहाबाद: प्रयाग पुस्तक भवन.



B.A. Geography (Pass Course)

Semester V

Name of Paper: **Environmental Geography**

Paper Code: **20 UGEO 502**

Maximum Marks: 75

Theory Examination: 60

Internal Assessment: 15

Max. Time: 3 hrs.

Objective: *Main objective of this course is to develop the basic understanding of environmental processes and man-environment relationship, contemporary issues and their importance for mankind.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Nature, Scope and Basic Principles of Environmental Geography, Approaches to Study Environmental Geography; Composition and Type of Environment, Man-environment Relationship.

Unit II

Ecosystem: Concept and Components, Food Chain and Food Webs, Trophic Structure, Ecological Pyramids, Energy Flow and Bio-geo Chemical Cycles.

Unit III

Environmental Degradation: Concept, Meanings and their Types; Greenhouse Effect, Global Warming, Environmental Pollution: Meaning and Types; Impact of Air, Water and Land Pollutions.

Unit IV

Environmental Management: Concepts and Approaches, Environmental Issues, Awareness and Movements in India, Environmental Management in India; Various Environmental Summits

Suggested Readings (English)

1. Casper, J. K. (2010). *Changing ecosystems: Effects of global warming*. New York: Infobase Pub.
2. Hudson, T. (2011). *Living with Earth: An introduction to environmental geology*. New Delhi: PHI Learning Private Limited.
3. Miller, G. T. (2007). *Living in the environment: Principles, connections, and solutions*. Belmont: Brooks/Cole Cengage Learning.
4. Singh, R. B. (1993). *Environmental geography*. New Delhi: Heritage Publishers.
5. Singh, R. B., & Hietala, R. (eds.) (2014). *Livelihood security in Northwestern Himalaya: Case studies from changing socio-economic environments in Himachal Pradesh, India*. Advances in Geographical and Environmental Studies. New Delhi: Springer.





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6. Wright, R. T., & Boorse, D. F. (2010). *Toward a sustainable future*. New Delhi: PHI Learning Pvt. Ltd.

Suggested Readings (Hindi)

1. जोशी, आर. (2020). *पर्यावरण भूगोल*. आगरा: साहित्य भवन प्रकाशन.
2. मिश्रा, के. के. (2018). *पर्यावरण भूगोल*. वाराणसी: बुक ओशन पब्लिकेशन.
3. हुसैन, एम. (2020). *पर्यावरण एवं पारिस्थितिकी*. (5वां संस्करण). नई दिल्ली: जी. के. पब्लिकेशन प्रा. लिमिटेड.
4. शर्मा, एम. (2010). *पर्यावरण भूगोल*. दुर्गापुर: इशिका पब्लिशिंग हाउस.
5. सक्सेना, एच. एम., सक्सेना, आर., और सक्सेना, पी. (2020). *पर्यावरण भूगोल*. जयपुर: रावत प्रकाशन.
6. सिंह, एस. (2015). *पर्यावरण भूगोल*. इलाहाबाद: प्रयाग पुस्तक भवन.



**B.A. Geography (Pass Course)
Semester V**

Name of Paper: **Population Geography**
Paper Code: **20 UGEO 503**

Maximum Marks:75
Theory Examination: 60
Internal Assessment:15
Max. Time: 3 hrs.

Objective: To provide basic understanding of spatial and structural composition of population, associated issues and challenges and global and regional level problems related to demography.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.

Unit I

Population Geography: Definition, Nature, and Scope; Sources of Data with Special Reference to India (Census, Vital Statistics and NSS).

Unit II

Population Size, Distribution and Growth, Determinants and Patterns; Theories of Population Growth: Malthusian and Demographic Transition.

Unit III

Fertility and Mortality: Measures, and Determinants; Population Migration: Types, Causes and Implications.

Unit IV

Population Composition and Characteristics, Age-Sex Composition; Rural and Urban Composition; Literacy; Contemporary Issues: Ageing of Population; Declining Sex Ratio.

Suggested Readings (English)

1. Barrett, H. R. (1995). *Population geography*. London: Oliver and Boyd.
2. Bhende, A., & Kanitkar, T. (2000). *Principles of population studies*. Mumbai: Himalaya Publishing House.
3. Chandna, R. C. (2015). *Geography of population: Concepts, determinants and pattern*. Delhi: Kalyani Publishers.
4. Chandna, R. C., & Sidhu, M. S. (1980). *An introduction to population geography*. Delhi: Kalyani Publishers.
5. Clarke, J. I. (1965). *Population geography*. Oxford: Pergamon Press.
6. Jones, H. R. (2000). *Population geography* (3rd ed.). London: Paul Chapman.
7. Lutz, W., Warren C. S., & Scherbov, S. (2004). *The end of the world population growth in the 21st century*. London: Earthscan.
8. Pacione, M. (1986). *Population geography: Progress and prospect*. London: Taylor and Francis.





Suggested Readings (Hindi)

1. खंडेलवाल, एन. (2017). *जनसँख्या भूगोल*. दिल्ली: अंकित प्रकाशन.
2. चांदना, आर. सी. (2015). *जनसँख्या भूगोल*. दिल्ली: कल्याणी पब्लिशर्स.
3. पांडा, बी. पी. (1988). *जनसँख्या भूगोल*. भोपाल: एम.पी. हिंदी ग्रंथ अकादमी.
4. मामोरिया, सी., और डांगी, एस. के. (2019). *जनसँख्या भूगोल*. आगरा: साहित्य भवन प्रकाशन.
5. मौर्य, एस. डी. (2009). *जनसँख्या भूगोल*. इलाहाबाद: शारदा पुस्तक भवन.



B.A. Geography (Pass Course)

Semester V

Name of Paper: **Regional Geography of Asia**
Paper Code: **20 UGEO 504**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: To provide basic knowledge and understanding about spatial extend, physiography, drainage, climate, natural vegetation, population and economic activities in the Asia; along with spatial variations and similarities between the different regions of the Asia.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Geographical Location, Physiography, Relief & Drainage; Major River System; Climate, Soils and Natural Vegetation

Unit II

Spatial Distribution of Population in Asia: Size, Density, Growth, & Composition; Migration: Types and Recent Trends.

Unit III

Spatial Distribution of Food Crops (Rice and Wheat) and Commercial Crops (Cotton and Sugarcane) in Asia; Natural Resources in Asia: Types, Utilization and Conservation

Unit IV

Distribution and Utilization of Minerals (Iron-Ore, Copper, Coal and Petroleum) in the Asia; Models of Transportation and Transport Cost: Accessibility and Connectivity.

Suggested Readings (English)

1. Abbasi, B. A. (2008). *Geography of South Asia: As a whole region*. Lahore: Sang-E-Meel Publications.
2. Chapman, G. P., & Baker, K. M. (eds.). (1992). *The changing geography of Asia*. London: Routledge.
3. Sahrma, Y. K. (2017). *Geography of Asia*. Agra: Lakshmi Naraina Agarwal.
4. Stamp, D. (2018). *Asia: A regional and economic geography*. Delhi: AITBS Publishers.
5. Tirtha, R. (2001). *Geography of Asia*. Jaipur: Rawat Publications.





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Suggested Readings (Hindi)

1. गौतम, ए. (2018). *विश्व का प्रादेशिक भूगोल*. इलाहाबाद: शारदा पुस्तक भवन.
2. मामोरिया, सी. (2016). *एशिया का भूगोल*. आगरा: एस.बी.पी.डी. पब्लिशिंग हाउस.
3. मामोरिया, सी. (2019). *विश्व का प्रादेशिक भूगोल*. आगरा: साहित्य भवन प्रकाशन.
4. मामोरिया, सी., और अग्रवाल, के. एम. एल. (2018). *एशिया का भूगोल*. आगरा: साहित्य भवन प्रकाशन.
5. हुसैन, एम. (2010). *विश्व भूगोल*. जयपुर: रावत प्रकाशन.



B.A. Geography (Pass Course)

Semester V

Name of Paper: **Remote Sensing & GIS (Practical)**

Maximum Marks: 25

Exercises:15

Record Book:05

Viva-Voce:05

Max. Time: 3 hrs.

Objective: *Main objective of this course is to enrich the students with basic understanding of aerial photographs and satellite imagery. It also aims to provide hands on training on GIS software and map making and application of GPS & TS in mapping.*

Note: There shall be four questions, two from each unit; students will have to attempt two questions selecting one question from each unit. All question shall carry equal marks.

Unit I

Remote Sensing: Working Principles

Basic Characteristics and Interpretation of Aerial Photographs

Identification and Interpretation of various features on Satellite Images

Unit II

GIS: Georeferencing, Digitization, Layout map, Map making and Choropleth Maps

Mapping with GPS (Global Positioning System) and Total Station (TS).

Suggested Readings (English)

1. Bhatta, B. (2011). *Remote sensing and GIS* (2nd ed.). New Delhi: Oxford.
2. John, R. J. (2009). *Remote sensing of the environment: An earth resource perspective*. New Delhi: Pearson Education, (India Edition).
3. Lillesand, & Kiefer, R. W. (1994). *Remote sensing and image interpretation*. New Jersey US: John Wiley and Sons.
4. Longley, P. A., Goodchild, M., Maguire, D. J., & Rhind, D. W. (2010). *Geographic information systems & science*. New Jersey US: Wiley.
5. Vyas, P. R. (ed.) (2015). *Remote sensing and geographical information systems: Basics and applications*. Jaipur: Rawat Publications.

Suggested Readings (Hindi)

1. कार्लेकर, एस. (2006). *दूर संवेदन*. पुणे: डायमंड प्रकाशन.
2. चौनियाल, डी. डी. (2011). *सुदूर संवेदन एवं भौगोलिक सूचना तंत्र*. इलाहाबाद: शारदा पुस्तक भवन.





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3. तिवारी, एन. के. (2004). *भौगोलिक सूचना प्रणाली*. दिल्ली: बी. पी. बी. पुस्तकें.
4. नाग, पी., चंद्रशेखर, और देवनाथ, जी. सी. (2016). *भौगोलिक सूचना विज्ञान*. वाराणसी: भारती प्रकाशन.
5. मिश्रा, आर. एन., और शर्मा, पी. के. (2019). *प्रायोगिक भूगोल*. जयपुर: रावत प्रकाशन.



**B.A. Geography (Pass Course)
Semester VI**

Name of Paper: **Climatology**
Paper Code: **20 UGEO 601**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: To provide comprehensive understanding of weather, climate, atmosphere structure, its evolution, global circulation of winds and associated climatic phenomena, climatic classification, dynamics of global climates and climate change.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Climatology: Nature and Scope; Climate and Weather; Elements of Climate; Factors Affecting Climate; Composition and Structure of Atmosphere; Atmospheric Temperature: Vertical and Horizontal Distribution.

Unit II

Atmospheric Pressure and Wind Distribution; Atmospheric Moisture: Humidity, Evaporation and Forms of Condensation; Types of Precipitation; World Patterns of Rainfall.

Unit III

Air masses: Concepts and Classification; Atmospheric Disturbances; Tropical and Temperate Cyclones and Anticyclones.

Unit IV

Climatic Regions; Classification of Koppen and Thornthwaite; Climate Changes and Global Warming: Evidences, Causes, Consequences and Measure of its Control.

Suggested Readings (English)

1. Chorley, R. J. (2001). *Atmosphere, weather and Climate*. London: Methuen.
2. Critchfield, H. J. (2002). *General Climatology*. New Delhi: Prentice Hall of India.
3. Lal, D. S. (1986). *Climatology*. Allahabad: Chaitanya Publications.
4. Siddhartha, K. (2018). *Climatology: Atmosphere, weather, climate*. New Delhi: Kitab Mahal.
5. Singh, S. (2013). *Climatology*. Allahabad: Prayag Pustak Bhawan.
6. Trewartha, G. T. (1954). *An introduction to climate*. New York: McGraw Hill.





Suggested Readings (Hindi)

1. गर्ग, एच. एस. (2020). *जलवायु विज्ञान एवं समुद्र विज्ञान*. आगरा: एस.बी.पी.डी. पब्लिशिंग हाउस.
2. गौतम, ए. (2010). *जलवायु एवं समुद्र विज्ञान*. मेरठ: रस्तोगी प्रकाशन.
3. लाल, डी. एस. (2012). *जलवायु एवं समुद्र विज्ञान*. इलाहाबाद: शारदा पुस्तक भवन.
4. सिंह, एम. बी. (1998). *जलवायु एवं समुद्र विज्ञान*. वाराणसी: तारा बुक एजेंसी.
5. सिंह, एस. (2006). *जलवायु विज्ञान*. इलाहाबाद: प्रयाग पुस्तक भवन.



**B.A. Geography (Pass Course)
Semester VI**

Name of Paper: **Agricultural Geography**
Paper Code: **20 UGEO 602**

Maximum Marks:75
Theory Examination:60
Internal Assessment:15
Max. Time: 3 hrs.

Objective: To provide basic understanding with the concept, origin, and development of agriculture; to examine the role of agricultural determinants towards changing cropping patterns, intensity, productivity, diversification and specialization with special reference to India.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Agricultural Geography: Definition, Nature, Scope and Significance; Approaches: Commodity, Systematic, and Regional; Origin and Dispersal of Agriculture; Determinants of Agricultural Patterns: physical, economic and cultural factors.

Unit II

Agricultural Land Use and Cropping Pattern, Intensity of Cropping; Degree of Commercialization; Diversification; Agricultural Efficiency and Productivity; Crop Combination and Concentration; Von Thunen Model of Agricultural Land Use; Land use survey and classification.

Unit III

Agricultural Regionalization: Concept and Criteria; Whittlesey's Agricultural Systems; Agro-climatic zonation: Concept and Agro-climatic Regions of India.

Unit IV

Agricultural Regions of India; Regional Imbalances in Agricultural Productivity in India; Green Revolution: Its Impact and Consequences in India; Food Security: Concepts, components and Food Security in India with special reference to National Food Security Act.

Suggested Readings (English)

1. Bowler, T. R. (1992). *The geography of agriculture in developed market economics*. Harlow: Longman.
2. Geoffrey, H. F. (1970). *Geography of agriculture: Themes in research*. New Jersey: Prentice Hall.
3. Grigg, D. (1995). *Introduction to agricultural geography*. London: Routledge.
4. Husain, M. (1996). *Systematic agricultural geography*. Jaipur: Rawat Publications.
5. Morgon, W. B., & Munton, R. J. C. (1971). *Agricultural geography*. London: Methuen.
6. Shafi, M. (2006). *Agricultural geography*. New Delhi: Pearson Education.





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7. Singh, J., & Dhillon, S. S. (1994). *Agricultural geography*. New Delhi: Tata Mc Graw Hill.
8. Tarrant, J. R. (1974). *Agricultural geography*. New York: Wiley.

Suggested Readings (Hindi)

1. अग्रवाल, एस. (2012). *कृषि भूगोल*. मेरठ: ए. बी. डी. प्रकाशन.
2. कुमार, पी., और शर्मा, एस. (2016). *कृषि भूगोल*. भोपाल: एम. पी. हिंदी ग्रंथ अकादमी.
3. तिवारी, आर. सी., और सिंह, बी. एन. (2016). *कृषि भूगोल*. इलाहाबाद: प्रवालिका प्रकाशन.
4. मामोरिया, सी., और सिंह, के. (2019). *कृषि भूगोल*. आगरा: एस. बी. पी. डी. प्रकाशन.
5. हुसैन, एम. (2000). *कृषि भूगोल*. जयपुर: रावत प्रकाशन.



**B.A. Geography (Pass Course)
Semester VI**

Name of Paper: **Urban Geography**
Paper Code: **20 UGEO 603**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 3 hrs.

Objective: To provide basic understanding of urbanization, growth, urban settlements and contemporary issues related to urban areas with special reference to India.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Urban geography: Definition, Nature, Scope and Approaches; Origin and Evolution of Towns, Factors Affecting the Urban Growth; Urban System in India; Pattern of Urbanization in India.

Unit II

Urban Morphology; Models of City Structure: Concentric Zone Theory, Sector Theory and Multiple Nuclei Theory.

Unit III

Functional Classification of Cities; Rural Urban Fringe: Characteristics and its Development; Central Place Theory of Christaller and Losch; Size and Spacing of Cities.

Unit IV

Urban Issues: Problems of Housing and Slums; Case studies of Delhi and Chandigarh with reference to Urban Landuse and Urban Issues; Urban Planning in India, National Urban Plans & Policies.

Suggested Readings (English)

1. Hall, T. (2006). *Urban geography*. London: Taylor and Francis.
2. Kaplan, D. H., Wheeler, J. O., & Holloway, S. R. (2008). *Urban geography*. New Jersey US: John Wiley.
3. Knox, P. L., & McCarthy, L. (2005). *Urbanization: An introduction to urban geography*. New York: Pearson Prentice Hall.
4. Knox, P. L., & Pinch, S. (2006). *Urban social geography: An introduction*. New Jersey: Prentice Hall.
5. Pacione, M. (2009). *Urban geography: A global perspective*. London: Taylor and Francis.
6. Ramachandran, R. (1989). *Urbanization and urban systems of India*. New Delhi: Oxford University Press.
7. Ramachandran, R. (1992). *The study of urbanization*. New Delhi: Oxford University Press.





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8. Singh, R. B. (ed.). (2001). *Urban sustainability in the context of global change*. Enfield (NH) USA: Science Publication Inc., & New Delhi: Oxford & IBH Pub.
9. Singh, R. B. (ed.). (2015). *Urban development, challenges, risks and resilience in Asian megacities*. Advances in Geographical and Environmental Studies. New Delhi: Springer.

Suggested Readings (Hindi)

1. गर्ग, एच. एस. (2015). *नगरीय भूगोल*. आगरा: एस. बी. पी. डी. प्रकाशन.
2. बंसल, एस. सी. (2017). *नगरीय भूगोल*. (तीसरा संस्करण) हैदराबाद: मीनाक्षी प्रकाशन.
3. मामोरिया, सी., और सिंह, के. (2018). *नगरीय भूगोल*. आगरा: एस. बी. पी. डी. प्रकाशन.
4. यादव, सी. (2012). *नगरीय भूगोल*. दिल्ली: राज प्रकाशन.
5. सिंह, आर. एन., और मौर्य, एस. डी. (2017). *नगरीय भूगोल*. इलाहाबाद: शारदा प्रकाशन.



**B.A. Geography (Pass Course)
Semester VI**

Name of Paper: **Geography of Haryana**
Paper Code: **20 UGEO 604**

Maximum Marks: 75
Theory Examination: 60
Internal Assessment: 15
Max. Time: 03 hrs.

Objective: To introduce the students with glorious past of the state, its physiography, climate, people, society, resource base and economic structure.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. All question shall carry equal marks.

Unit I

Haryana: Physiographic: Relief Characteristics and Physiographical Divisions; Drainage Systems and their Significance; Climatic Regions of State; Soil and Vegetation: Characteristics and Conservation.

Unit II

Population: Growth & Distribution; Demographic Attributes: Sex-ratio, Literacy Rate and Workforce Participation; Population Problems and Policies; Human Resources: Potential and Prospects, Contemporary Issues Related to Gender Ratio and Women Empowerment.

Unit III

Agriculture: Agro-climatic Region, Traditional Agriculture System, Cropping Pattern, Green Revolution and Agricultural Development in Haryana and Problems Related to Agriculture. Irrigation: Types of Irrigation, Major Irrigation Projects: A case Study of Bhakra Nangal.

Unit IV

Trend and Pattern of Urbanisation, Contemporary Issues and Challenges in Urban Areas, Distribution of Natural and Human Resources, Transport System and Growth, Manufacturing and Service Hubs, Knowledge Economy. Any Case Study of Automobile and Information and Technology Hub.

Suggested Readings (English)

1. Buddha, P. (1962). *Haryana through the ages*. Kurukshetra: Kurukshetra University.
2. Census of India. (2011). *District census handbook of Haryana*. New Delhi: Census of India.
3. Phadke. H. A. (1990). *Haryana: Ancient and medieval*. New Delhi: Harman Publication House.
4. Phogat, S. R. (1978). *Inscriptions of Haryana*. Kurukshetra: Kurukshetra University.
5. Singh, F. (ed.) (1997-2000). *History of the Punjab* (1st to 3rd vol.). Patiala: Publication Bureau, Punjabi University.





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6. Yadav, K. C. (1994). *Modern Haryana: History & culture* (2nd ed.) Part 1 & 2. New Delhi: Manohar Publisher.
7. Valdiya. K. S. (2002). *Sarasvati: The River that disappeared*. Hyderabad: Universities Press (India) Limited.
8. Haryana Sarasvati Heritage Development Board (<http://merisarasvati.com>) (www.hshdb.in)
9. Economic & Statistical Handbook of Govt. of Haryana (<http://esaharyana.gov.in>)

Suggested Readings (Hindi)

1. गोयल, जे. बी. (सं.). (1966). *हरियाणा- पुरातन इतिहास, संस्कृति, साहित्य एवं लोकवार्ता*. दिल्ली.



**B.A. Geography (Pass Course)
Semester VI**

Name of Paper: **Field Survey (Practical)**

Maximum Marks: 25
Exercises: 15
Record Book: 05
Viva-Voce: 05
Max. Time: 3 hrs.

Objective: To provide the basic understanding about the identification of research problem, planning for survey, conduct of Physical and Socio-economic Survey and report writing.

Note: There shall be four questions, two from each unit; students will have to attempt two questions selecting one question from each unit. All question shall carry equal marks.

Unit I

Physical Survey:

- Identify the prominent landform and earth surface process of the surveyed area.
- Demarcate the landform features of the selected area on a topographical sheet.
- Identify the various soil types and their characteristics.
- Classify the Flora & Fauna of the area.
- Identify the relationship of various landforms, flora and fauna with land-use, settlement structure and life style of people.

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

Unit II

Socio-economic Survey:

- Conduct a socio-economic survey of the households with a structured questionnaire/ schedule.
- Supplement the information by personal observations and input from stakeholder.
- Based on results of the household survey, prepare a field report of socio-economic survey.

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

Suggested Readings (English)

1. Davis, R. E., & Foote, F. S. (1953). *Surveying* (4th ed.). New York: McGraw Hill Publication.
2. Khan, Z. A. (1998). *Textbook of practical geography*. Concept Publishing Co.
3. Machumu, H. (2011). *Understanding Practical Geography: Map Work - Surveying - Field Work – Research*. Verlag: Grin Publishing.





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4. Sarkar, A. (2015). *A practical geography*. (3rd ed.). New Delhi: Orient Blackswan Private Limited.
5. Singh, R. L. (1979). *Elements of practical geography*. New Delhi: Kalyani Publishers.
6. Venkatramaiah, C. (1997). *A textbook of surveying*. Hyderabad: Universities Press.

Suggested Readings (Hindi)

1. चंद्राकर, पी. (2018). *प्रायोगिक भूगोल*. बिलासपुर: संकल्प प्रकाशन.
2. मिश्रा, आर. एन., और शर्मा, पी. के. (2019). *प्रायोगिक भूगोल*. जयपुर: रावत प्रकाशन.
3. शर्मा, जे. पी. (2008). *प्रायोगिक भूगोल*. नई दिल्ली: रस्तोगी पब्लिकेशन.
4. सिसोदिया, एम. एस. (2019). *प्रायोगिक भूगोल*. भोपाल: कैलाश पुस्तक सदन.
5. सिंह, आर. एल., और सिंह, आर. पी. बी. (1993). *प्रायोगिक भूगोल के तत्व*. लुधियाना और नई दिल्ली: कल्याणी पब्लिशर्स.



B.A. Geography
Open Elective

Name of Paper: **General Geography of India**
Paper Code: **20 UGEO 701 OEC**

Maximum Marks: 100
Theory Examination: 80
Internal Assessment: 20
Max. Time: 03 hrs.

Objective: *The basic aim of the course is to provide comprehensive understanding of the geographical profile of India and establishing linkages with systematic and regional geography. Along with this course also provides understanding about geographical attributes in determining social and economic structure of the country.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of six short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.

Unit I

Geographical Location, Physiography, Structure and Drainage Systems; Climate, Soils and Natural Vegetation.

Unit II

Population: Size and Growth, Distribution, Density & Composition; Migration: Types and Recent Trends.

Unit III

Green Revolution and Problems of Indian Agriculture; Energy resources: Coal, Petroleum, Hydroelectricity and Nuclear Energy.

Unit IV

Mineral & Industries: Iron Ore, Manganese, Iron and Steel, Cotton Textile and Sugar Industries; Transportation Modes: Roads and Rail.

Suggested Readings (English)

1. Deshpande, C. D. (1992). *India: A regional interpretation*. New Delhi: Northern Book Depot.
2. Husain, M. (1992). *Geography of India*. New Delhi: Tata McGraw Hill Education.
3. Shafi, M. (2000). *Geography of South Asia*. Calcutta: McMillan and Company.
4. Singh, G. (2006). *Geography of India*. New Delhi: Atma Ram and Sons.
5. Singh, R. L. (ed). (1971). *India: A regional geography*. Varanasi: National Geographical Society, India.
6. Singh, S., & Saroha, J. (2014). *Geography of India*. New Delhi: Access Publishing India Pvt. Ltd.





Suggested Readings (Hindi)

1. खुल्लर, डी. आर. (2017). *भारत का भूगोल*. नई दिल्ली: टाटा मैकग्रा हिल एजुकेशन.
2. बंसल, एस. सी. (2015). *भारत का वृहत भूगोल*. हैदराबाद: मीनाक्षी प्रकाशन.
3. मामोरिया, सी. (2018). *भारत का वृहत भूगोल*. आगरा: साहित्य भवन.
4. सिंह, जी. (2007). *भारत का भूगोल*. नई दिल्ली: आत्म राम एंड संस.
5. हुसैन, एम. (2017). *भारत का भूगोल*. नई दिल्ली: टाटा मैकग्रा हिल एजुकेशन.



**B.A. Geography
Open Elective**

Name of Paper: **Introduction to Geography**
Paper Code: **20 UGEO 702 OEC**

Maximum Marks: 100
Theory Examination: 80
Internal Assessment: 20
Max. Time: 3 hrs.

Objective: *To provide the basic understanding about the basic concepts of geography and their contemporary importance.*

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.

Unit I

Introduction to Geography; Concept of Location and Time; Structure of the Earth; Types and Characteristics of Rocks, Relief Features.

Unit II

Weather and Climate Change: Introduction; Distribution of Temperature, Global Circulation of Winds; Greenhouse Effect and Global Warming

Unit III

Concepts of Natural Resources: Management and Development; Environment & Ecosystems: Concept & Components; Man-environment Relationship.

Unit IV

Population: Distribution and Density; Migration Types and Pattern; Problems of Population Growth.

Suggested Readings (English)

1. Dikshit, R. D. (1994). *The art and science of geography: Integrated readings*. New Delhi: Prentice-Hall of India Pvt Ltd.
2. Dikshit, R. D. (1997). *Geographical thought: A contextual history of ideas*. New Delhi: Prentice-Hall of India Pvt Ltd.
3. Hartshorne, R. (1959). *Perspective on nature of geography*. Chicago: Rand McNally.
4. Hartshorne, R. (1976). *The nature of geography*. Lancaster.
5. Holt, J. (1980). *A geography: Its history and concepts*. Longmans.
6. Husain, M. (1990). *Evolution of geographical thought* (2nd ed.). Jaipur: Rawat Publications.





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7. James, P. (1972). *All possible worlds: A history of geographical ideas*. Indianapolis: Odessey Press.
8. Minshull, R. (1970). *The changing nature of geography*. London: Hutchinson.

Suggested Readings (Hindi)

1. कौशिक, एस. डी. (2007). *परिचयात्मक भूगोल*. मेरठ: रस्तोगी प्रकाशन.
2. जाट, बी. सी. (2019). *भौतिक भूगोल (तीसरा संस्करण)*. जयपुर: रावत प्रकाशन.
3. दीक्षित, एस. के. (2001). *भौगोलिक चिन्तन का उद्भव एवं विकास*. वाराणसी: विश्वविद्यालय प्रकाशन.
4. मौर्य, एस. डी. (2010). *भौगोलिक चिन्तन का इतिहास*. इलाहाबाद: प्रयाग पुस्तक भवन.
5. सिंह एस. (2000). *भौतिक भूगोल*. इलाहाबाद: प्रयाग पुस्तक भवन.
6. हुसैन, एम. (1990). *भौगोलिक चिन्तन का इतिहास*. जयपुर: रावत प्रकाशन.
7. हुसैन, एम. (2012). *मानव भूगोल*. जयपुर: रावत प्रकाशन.

