

KUMAUN UNIVERSITY, NAINITAL
GEOGRAPHY UNDER GRADUATE (B.A./B.Sc.) PROGRAMME (ANNUAL MODE)
BA/BSc Course Structure-2019 Onwards

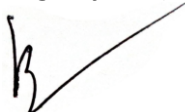
Year	Name of Paper			Marks
I	THEORY	(GUGP-101)	Paper I-Physical Geography	50
		GUGP-102)	Paper II- Geography Of Asia (Excluding India)	50
	PRACTICAL	(GUGP - P-103)	Practical- (Basic Cartographic Techniques And Map Reading)	50
II	THEORY	GUGP-201)	Paper I- Human Geography	50
		GUGP-202)	Paper II- Geography Of India	50
	PRACTICAL	GUGP- P-203	Practical- (Surveying And Cartographic Representation Of Geographical Data)	50
III	THEORY	(GUGP-301)	Paper I Evolution Of Geographical Thoughts	50
		GUGP-302)	Paper II-Economic geography	50
	PRACTICAL	GUGP- P-303	Practical(Statistical, Rs & GIS Techniques, And Map Projections)	50

RULES FOR PAPER SETTING

(Instructions to Examiners)

The syllabus of all the theory papers in all the Three Years of B.A. /B.Sc. Geography, are divided into two Sections in each paper. Consequently, in all the theory papers, the questions will be asked in the following manner:

1. Questions from overall syllabus will be asked in two Sections in the Term End Examinations in each of the theory papers in all the classes. Both the Sections A and B are compulsory.
2. Section A contains Short answered questions of about 250 words each, i.e., total eight questions (out of which 5 questions will have to be answered) of 4 marks each (total 20 marks) from over all syllabus by covering all the units will be asked in the examination.
3. Section B contains long answered questions of theoretical nature as usual and 3 questions will have to be answered (with internal choice) of 10 marks each (total 30 mark).
4. At least one question (short answered as well long answered) from each unit of syllabus must be asked in the examination. The students will have to attempt 5 questions from Section A and 3 questions from Section B.
5. The Theory papers (I and II papers) will be of 50 marks. The practical examination will be of 50 marks in each of the annual classes. Thus the total marks allotted for the subject (Geography) is 150 marks for B.A. /B.Sc.
6. Question papers will be set up in bilingual form (Hindi and English)



**B.A/B.Sc.First Year
PHYSICAL GEOGRAPHY
Paper code:(GUGP-101)
First Paper**

Marks: BA/BSc 50

Time: 03 hours

Unit - I	Meaning, Scope and Branches of Physical Geography, Origin of the earth, Theories of Laplace, Chamberlin, James Jeans, Jeffreys, and Hoyle & Lyttleton, Interior of the earth,.
Unit - II	Origin of continents and ocean basins: Isostasy, Earth movements, Endogenetic forces, Major landforms: Mountains, Plateau and Plains, Gradational processes, Weathering and Erosion, normal cycle of erosion, River, Arid, Glacial Marine and Karst topographies, Vulcanicity and Earthquakes,
Unit - III	Rocks: origin and classification, Soil as a basic component of environment characteristics and significance - Processes and factors of soil formation.
Unit - IV	Composition and structure of atmosphere, Insolation, Vertical and Horizontal Distribution of temperature, Pressure and pressure belts, Winds: Planetary, Periodic and Local. Humidity, clouds, and precipitation, Cyclones and Anticyclones.
Unit - IV	Ocean bottom topography, Ocean deposits, Salinity, Temperature, Ocean currents, Tides and Coral reefs.

Books Recommended:

1. Barry, RG and Chorley, R.J. (1998) Atmosphere, Weather and Climate. Routledge, London.
2. Bryant, H. Richard (2001) Physical Geography Made Simple. Rupa and Co., New Delhi.
3. Bunnett, R.B. (2003) Physical Geography in Diagrams, Fourth GCSE Edition, Pearson Education (Singapore) Pvt Ltd.
4. Garrison T (1998) Oceanography. Wordsworth Cp, Bedmont.
5. Lake, P (1979) Physical Geography (English & Hindi Edition) Cambridge Univ. Press, Cambridge. Monkhouse, F I (1979) Physical Geography, Methuen, London
6. Singh, S (2003) Physical Geography (English and Hindi Editions) Prayag Putak Bhawan, Allahabad Singh, M.B. (2001) Bhoutik Bhoogol, Tara Book Agency, Varanasi.
7. Strahler, A.N. and Strahler A.M. (1992) Modern Physical Geography, John Wiley and Sons, New York Wooldridge, S.W. and Morgan, R.S. (1959) The Physical Basis of Geography: An Outline of Geomorphology. Longman, London



**B.A/B.Sc.First Year
Geography of Asia (Excluding India)
Paper code:(GUGP-102)
Second Paper**

Marks: BA/BSc 50

Time: 03 hours

Unit - I	Asia in the context of the world (geo-political significance, location and extent), Physiographic Divisions of Asia, Drainage, Climate, Natural vegetation, Soils.
Unit - II	Distribution and density of Population, Important Urban Center in Asia, Population growth rate, and Population Problems of Asia
Unit - III	Agriculture and agricultural regions, Distribution and Production of Rice, Wheat, Rubber, Tea in Asia
Unit - IV	Principal minerals, Industries and industrial regions, Transport, Sources of power, Factors affecting the localization of major industries in the Asia
Unit - V	Regions and countries: Regional Geography of S.W. Asia, S.E. Asia, South Asia, & South East Asia. Detailed study of Japan, China, Pakistan, Indonesia, Iran and Israel

Books Recommended:

1. Stamp L D (1976) Asia: A Regional and Economic Geography. Methuen, London.
2. Cressey G B () Asia's Land & People.
3. Kolb, A (1971) East Asia: China, Japan, Korea, Vietnam. Methuen, London.
4. Chauhan, B S () *Asia ka Pradeshik Bhoogol*. S Chand & Co. New Delhi.
5. Tirtha, R (2001) Geography of Asia, Rawat Pub, New Delhi

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**B.A/B.Sc.First Year
PRACTICAL
(Basic Cartographic Techniques and Map Reading)
Paper code:(GUGP-P-103)**

Marks:BA/BSc 50

Time: 04

hours

1 Lab.Work BA/BSc 30

2 Record work BA/BSc 10

3 Viva voce BA/BSc 10

Unit-I	Meaning, importance and types of Scale, Conversion of Scale, Construction of Plain, Comparative and Diagonal Scale. Methods of enlargement and reduction of maps.
Unit-II	Definition, nature and scope of cartography, Globe and maps, , Types and uses of maps, Elements of map reading
Unit-III	Cartographic representation of relief: Hachures, Contours, Formline, Spot height, Bench mark, Trig point, Layer tint; Interpolation of contours.
Unit-IV	Indian topographical map system: Their classification and types. Interpretation of topographical maps; drainage, landuse , settlement and transportation network.
Unit-V	Indian weather maps: Observatory Interpretation and preparation of weather report, Meteorological instruments; Barometer, Thermometer (Minimum, Maximum, Dry and Wet bulb), Rain gauge, Wind vane and Anemometer

Recommended Books

1. Monkhouse, F.J. & Wilkinson, F.J. (1985) Maps and Diagrams. Methues, London.
2. Raisz, E (1962) General Cartography. John Wiley & Sons, New York.
3. Sharma, J.P. (2001) PrayogikBhoogaolk. Rastogi Pub, Meerut.
4. Singh R.L. & Singh, Rana P B (1993) Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.
5. Singh, L R (2006) Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad



**B.A/B.Sc.Second Year
HUMAN GEOGRAPHY
Paper code:(GUGP-201)
First Paper**

Marks BA/BSc 50

Time: 03 hours

Unit - I	Definition and scope of Human Geography; human versus physical geography; branches of Human Geography; Development of Human Geography; Contributions of German and French Geographers.
Unit - II	Approaches: determinism, possibilism, human ecology and positivism; Schools: ecology, landscape, locational, welfare and humanistic
Unit - III	Elements of environment; physical and human environment; constraints and opportunities of the environment; impact of environment on man; impact of man on environment; environmental problems.
Unit - IV	Evolution of man: Classification of races, Characteristics of races and their broad distribution, Human adaptation to the environment: Eskimo, Bushman, and Masai. Major tribes of India; their habitat, economy and culture with special reference to Nagas, Bhils, Santhal, Gaddi, Bhotia, and Tharu.
Unit- V	Rural settlements: Types and pattern, Urban settlement: Evolution and classification, Rural houses in India, Cultural regions of the world.

Books Recommended:

1. De Blij, H J Human Geography :Culture, Society and Space .John Wiley, New York..
2. Haggett, P (2004) Geography: A Modern Synthesis. Harper & Row, New York.
3. Hussain, M (1994) Human Geography. Rawat Pub,Jaipur.
4. Kaushik, S D & Sharma, AK (1996) Principles of Human Geography (inHindi), Rastogi Pub, Meerut.
5. Norton W. (1995) Human Geography. Oxford University Press, New York
6. Singh, K N & Singh J (2001) Manav Bhoogol.Gyanodaya Prakashan, Gorakhpur.
7. Singh L R (2005) Fundamentals of Human Geography. Sharda Pustak Bhawan, Allahabad.



**B.A/B.Sc.Second Year
GEOGRAPHY OF INDIA
Paper code:(GUGP-202)
Second Paper**

Marks BA/BSc 50

Time: 03 hours

Unit - I	India- A subcontinent, Physical features, Geologic structure, Drainage system, Climate, Natural vegetation, Soils.
Unit - II	Population (density, distribution and growth), Transport, Multipurpose projects, Foreign trade, Regional development and planning
Unit - III	Agriculture, Crops (Food, plantation and commercial), Agriculture production, Agriculture regions, Irrigation, Livestock raising and Fishery.
Unit - IV	Transport: Roads and railways, air transport and pipe transport
Unit-V	Industries (Metallurgical, Textile, Engineering, Chemical, Food, Leather, Forest based) Industrial regions, Power and Minerals Resources

Books Recommended:

1. Chauhan B.S.& Gautam Alka (2011) *Bharat* (Geography of India), Rastogi Publication, Meerut.
2. Chauhan B.S.& Gautam Alka (2013) *Bharatvarshka Vistrat Bhogool*, Rastogi Publication, Meerut.
3. Hussain, Majid (2015) *Geography of India*, McGraw Hill Education, New Delhi.
4. Mamoria, C.B. (2007) *Bharat Ka Bhoogol*. Sahitya Bahwan, Agra.
5. Sharma, Y.K. (2009) *Geography of India*, Lakshmi Narayan, Agra.
6. Sharma, M L & Sharma H S (2011) *Bharatka Bhogool*, Rastogi Publication, Meerut. Sharma, J K & Kalwar, S C (2011) *Bharat ka Bhogool*, Rastogi Publication, Meerut.
7. Singh R L (1993) *Regional Geography of India*, National Geographic Society of India, Varanasi.



**B.A/B.Sc.Second Year
PRACTICAL
(Surveying and Cartographic Representation of Geographical
Data)
Paper code:(GUGP-P-203)**

Marks BA/BSc 50
hours

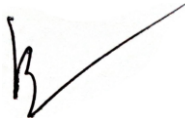
Time: 03

1 Lab. Work BA/BSc 30
4 Record work BA/BSc 10
5 Viva voce BA/BSc 10

Unit - I	Fundamentals of Surveying: Objects, Types of Surveying Classification.
Unit - II	Plane Table Surveying: Radiation, Intersection, Open Traverse,.
Unit - III	Surveying by Prismatic Compass: Close Traverse, Open Traverse, and Correction of bearing.
Unit - IV	Measurement of height and depth by Indian Pattern Clinometer. . Basics of GPS, Application of GPS
Unit - V	Cartographic representation of geographical data by (a) dot method (b) proportional sphere method and circle method. Representation of economic data: Agriculture landuse, production and industrial data, Representation of population data: Growth, distribution.

Books Recommended:

1. Monkhouse, F.J. & Wilkinson, F.J. (1985) Maps and Diagrams .Methues, London. Raisz, E (1962) General Cartography. John Wiley & Sons, New York.
2. Sharma, J.P. (2001) Prayogik Bhoogaolk. Rastogi Pub, Meerut.
3. Singh R.L. & Singh, Rana P B (1993) Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi.
4. Singh, L R (2006) Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.



B.A/B.Sc. Third Year
EVOLUTION OF GEOGRAPHICAL THOUGHTS
Paper code:(GUGP-301)
First Paper

Marks: BA/BSc 50

Time: 03 hours

Unit - I	Definition and purpose of Geography, Geography as Science , The basic concepts of Geography, Techniques and tools in Geography, Different branches of Geography.
Unit - II	Geography in classical times: Greek and Roman Geographers, Contribution by Arab Geographers,
Unit - III	Renaissance, Eighteenth century Geography, Development of Geographical Thought in India: Ancient and Modern.
Unit - IV	Formulation of scientific Geography, Schools of thoughts; German, French, British, American and former Soviet Union. Environmental determinism, possibilism, Neo-determinism and probabilism
Unit - V	Dualism in Geography, Dichotomism of scientific and regional Geography; Unity in Geography, Concept of Regions and regionalization, Quantitative Geography, Recent Trends in Geography.

Books Recommended:

1. Abler,Ronald;AdamsJohnS.Gould,Peter(1971)SpaticalOrganization :TheGeographer's View of the world. Prentice Hall.N.I..
2. Ali.S.M : The Geogrpahy of Puranas (1996) People of Publishing House , Delhi
3. Amedeo,Douglas(1971)AnIntroductiontoscientificReasoninginGeog raph, JohnWiley, USA.
4. Dikshit,R.D.(ed):TheArtsandscienceofGeographyintegratedreadings,P.H.I, NewDelhi,
5. Hartshone,R.(1959) Perspectives on Nature of Geography,Rand Mcn ally& co.
6. Husain,M.(1984) EvaluationofGeographicalthought,RawatPublication,Jaipur.
7. Johnston,R.J.(1983)PhilosophyandHumanGeography,EdwardArnoldLondo n,..Johnston,
8. R.H.(1988)The future of Geography , Methuen,London
9. Mishull,R.(1970)TheChangingNatureofGeography,HutchinsonU niversitylibrary, London,
- 10.Adhikari S. (1992): Geographical Thought ,Chiatanya Pub. House,Allahabad
- 11.Chorley,R.J.&Hagget.P.(1965) Frontier in Geographical Teaching, Oxford University Press.



**B.A/B.Sc. Third Year
ECONOMIC GEOGRAPHY
Paper code:(GUGP-302)
Second Paper**

Marks: BA/BSc 50

Time: 03 hours

Unit - I	Meaning, aim and scope of economic geography, Resources: Meaning, classification, conservation and concepts, Economic landscapes.
Unit - II	Primary production, Vegetation & forest economy, Soil resources, Mineral resources (Iron ore and bauxite), Power resources (Coal, Petroleum and Hydro- electricity, Resource conservation
Unit - III	Agricultural regions (Derwent Whittlesey), Principle crops: Wheat, paddy, sugarcane and tea, Theory of agriculture location (Von thunen),
Unit - IV	Major industries: Iron & steel, textiles, petro-chemical and sugar, Theory of industrial location (Weber) and industrial regions
Unit - V	World transportation, Major trans-continental railways, sea and air routes, International trade, patterns and trends, Major trade blocks: NAFTA, EEC, ASEAN, Globalization and developing countries.

Books Recommended:

1. Alexander, I W (1988) Economic Geography. Prentice Hall, NewDelhi
2. Boesch,H (1964) A Geography of World Economy.Von Nostrand, NewYork
3. Gautam, A(2006)ArthikBhugolkeMoolTatve.ShardaPustakBhawan, Allahabad
4. Hartshorne,TA&AlexanderIW(1988)EconomicGeograohy.Engle wood Cliff,New Jersey
5. Singh,KNandSinghI(2003)ArthikBhugolkeMoolTatve.GyanodayaPr akashan, Gorakhpur.



**B.A/B.Sc. Third Year
PRACTICAL
(Statistical, RS & GIS Techniques and Map Projections)
Paper code:(GUGP-P-303)**

.Marks: BA/BSc 50

Time: 04hours

1 Lab.work	BA/BSc 30
2 Survey Camp	BA/BSc 10
2 Record work	BA/BSc 05
3 Viva voce	BA/BSc 05

Unit - I	Types of data, Collection of data, Methods of sampling, Measures of central tendency; Mean, Mode, Median, Measures of dispersion; Mean, Quartile and Standard deviation, Correlation.
Unit - II	Definition, Necessity and Classification of map projection, Construction of map projections: Simple conical projection with one and two standard parallels, Bonne's projection.
Unit - III	Cylindrical projections: Equidistant and Equal area cylindrical projections, Mercator's. Zenithal Projections: Polar zenithal equidistant, Equatorial zenithal equidistant, Polar zenithal equal-area, Equatorial zenithal equal area.
Unit - IV	Remote sensing: Components of remote sensing, Remote sensing systems, Platform and sensors; Elements of image interpretation; Image processing techniques: Visual and digital, Geometric & supervised and unsupervised.
Unit - V	Datum and Georeferencing, Geographic Data Types; Spatial and Non-spatial data;, Principal Functions of GIS, Applications of GIS

** Survey Camp denotes 'field survey' which will be carried out by the students of B.A./ B.Sc. 3rd Year. The area of field survey must be selected by the Department and conducted in any geographical region.

Books Recommended:

1. Sharma, J.P. (2001) Prayogik Bhoogaol. Rastogi Pub, Meerut.
2. Singh R.L. and Singh, Rana P B (1993) Elements of Practical Geography (Hindi & English Editions), Kalyani Publishers, New Delhi
3. Singh, L R (2006) Fundamentals of Practical Geography. Sharda Pustak Bhawan, Allahabad.

