### (i) B.A./B.Sc. (Geography)
**Pass Course**

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ANNEXURE-II

B.A./B.Sc. (General)
First Year

Maximum Marks
B.A.: 30
B.Sc.: 45
Time: 3 Hours

Paper-I  INTRODUCTION TO GEOGRAPHY

Objective:
This introductory paper is intended to acquaint the students with distinctiveness of geography as a field of learning in social science as well as in natural science. The Philosophy and methodology of the subject is discussed in such away that students develop a keen interest in the subject and pursue it for higher studies.

Course Content:

Unit-I  Introduction:
The nature of geography; objectives and relevance; place of geography in the Classification of sciences; geography and other disciplines; A brief overview of geography as a discipline.

Unit-II  Geography: Major themes & sub themes
Geography as the study of environment; man-environment relationship; ecology and ecosystem; environmental determinism, possibilism, neo-determinism

Unit-III  Geography Major Themes, sub themes and perspectives
Dualism in geography-Systematic/Regional; Physical/human; complementarily. Recent trends in geography with special reference to India.

Unit-IV  Methodology:
(i) Cartographic- map making and mapping techniques;
(ii) Quantitative- statistical methods;
(iii) Field work- collection of primary data through physical and socio-economic surveys; statistical analysis of data and preparation of maps
(iv) Instrumental surveys.

Unit-V  Modern Techniques
An introduction to Modern Techniques: Use of Air photographs and Satellite - imageries; Remote sensing as a tool for data generation and mapping; Geographical Information System, GIS and Computer Cartography

Note: The examination would be of Three hours duration. The Question Paper would contain 10 questions- Two questions from each of the given five units spread equally over the whole syllabus. Maximum marks are 30 for B.A. and 45 for B.Sc. candidates. Each question will carry equal marks. The candidate required to attempt five questions in all, selecting at-least one question from each of the five units respectively. It is to be noted that the choice of questions will be permitted within the concerned unit only.
Paper II  PHYSICAL GEOGRAPHY-I  
(Earth's Origin and Elements of Geomorphology)

Objective:

The objective of this course is to introduce the latest concepts in physical geography, essentially geomorphology, to the students of geography in a brief but adequate manner.

Course contents:

Unit-I  Origin of the Earth: A General introduction to the Solar System; Theories Regarding the origin of the Earth-Nebular Hypothesis of Kant and Laplace; and Tidal Hypothesis of Jeans and Jeffreys. A brief introduction to Earth's Dimensions-Earth's size, shape, motions and time.

Unit-II  Geographical time scale; Earth's interior; Earth movements- orogenic and Epeirogenic (Folding and Faulting)

Unit-III  Earthquakes and Volcanoes, Isostasy, Wegner's theory of Continental Drift and Plate Tectonics.

Unit-IV  Rocks- Origin and composition; weathering, Mass wasting, concept of cycle of Erosion, Interruption in the cycle of erosion


Note:  The examination would be of Three hours duration. The Question Paper would contain 10 questions- Two questions from each of the given five units spread equally over the whole syllabus. Maximum marks are 30 for B.A. and 45 for B.Sc. candidates. Each question will carry equal marks. The candidate required to attempt five questions in all, selecting at-least one question from each of the five units respectively. It is to be noted that the choice of questions will be permitted within the concerned unit only.

Suggested Readings:
B.A./B.Sc. (General)
First Year

Maximum Marks
B.A.: 30
B.Sc.: 45
Time: 3 Hours

Paper-III
Cartography-I
(Map work and Field work)

Objective:
Geography is an amalgam of physical as well as social sciences and as such, it is necessary for
the students to go through laboratory exercises, particularly the techniques of drawing cartograms
showing 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.

Course Contents:

Unit-I
An introduction to cartography scales- Methods of Representing scales and their
types- Plain, Comparative and Diagonal. Maps and types, classification of maps.

Unit-II
Methods of Representing Relief- Quantitative and Qualitative Methods-
Representation of different landforms by contours.

Unit-III
Profiles, Drawing of Profiles: cross and long profiles, superimposed, composite
and projected profiles and their relevance in landform mapping and analysis.

Unit-IV
Study of Survey of India topographical maps- Classification and scale.
Interpretation of S01 topo-sheets of a hilly and a plain area of India in respect of
(i) relief (ii) drainage, (iii) settlement and (iv) communication patter.

Unit-V
Field work- Basic Principles of land surveying: Chain and Tape survey (Exercises
on Triangulation and traversing only)

Note:
There would be map work written and field work examination of 4 Hours duration
to be conducted in the Geography Laboratory of the College. The question paper
would contain 5 questions set by the External and Internal examiners. The
candidate will have to attempt any three questions. All questions in map work
written carry equal marks.

The distribution of marks in this paper as follows:

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Objective:

- This paper on physical geography is structured into components of climatology and oceanography. The aspects of climatology emphasize the constituents of the atmosphere, the dynamic nature of the processes associated with it and their contribution in making the earth habitable. The course content also leads to the identification of climatic differentiation on the earth, and the consequences of human activities on the atmospheric processes.

- The component of oceanography similarly deals with the coastal processes and describes the vast and diversified resources the oceans hold.

Course Contents:

**A CLIMATOLOGY**

**Unit-I**
Weather and climate; elements of weather and climate; Composition and structure of the atmosphere. Atmospheric Insolation and Temperature: Factors, horizontal and vertical - (Inversion of temperature)

**Unit-II**
Atmospheric pressure and winds; vertical and horizontal distribution of pressure; planetary, periodic and local winds. Atmospheric moisture; humidity, evaporation; and condensation; hydrological cycle; types of precipitation, world patterns of rainfall.

**Unit-III**
Air masses and fronts: concept, classification and properties. Atmospheric disturbance: tropical and temperate cyclones; thunderstorms and tornadoes. Climatic classification; Koppen’s classification

**B OCEANOGRAPHY**

**Unit-IV**
Surface configuration of the ocean floor, continental shelf, continental slope, abyssal plain, mid-oceanic and oceanic trenches. Relief of Atlantic, Pacific and Indian Oceans. Distribution of temperature and salinity of oceans and seas.

**Unit-V**
Circulation of oceanic waters: waves, tides and currents; currents of the Atlantic, Pacific and Indian oceans, Marine deposits and coral reefs; Oceans as storehouse of resources for the future.

Note:
The examination would be of Three hours duration. The Question Paper would contain 10 questions - Two questions from each of the given five units spread equally over the whole syllabus. Maximum marks are 30 for B.A. and 45 for B.Sc. candidates. Each question will carry equal marks. The candidate required to attempt five questions in all, selecting at-least one question from each of the five units respectively. It is to be noted that the choice of questions will be permitted within the concerned unit only.
Paper-V  
HUMAN GEOGRAPHY

Objective:

The objectives of this course are to acquaint the students with the 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 facing the global community.

Course Content:

Unit-I Division of Mankind: Races-criteria of selection of Races, Distribution of Races; Major Linguistic groups of the world; World Patterns of Religions and Cultural Realms.

Unit-II Human Adaptation to the environment: (i) cold region- Eskimo; (ii) hot region Bushman, Beduin; (iii) Plateau-Gonds, Masai, (iv) Mountain- Gujjars, nomads,

Unit-III Population Distribution and Growth: Factors Affecting Population Distribution; Patterns of Population Distribution in the world; Patterns of Population Growth, Differentials of population growth in developed and developing countries. Zero population growth

Unit-IV Population, Resources and Migration Demographic cycle concepts of over population, Under population and optimum population; population problems in developed and developing countries; Migration- Causes, Patterns (Past and Present) and consequence.

Unit-V Rural and Urban Settlements Definition, Types and Patterns of Rural Settlements; Origin and Evolution of urban settlements; Functional classification of urban places; Trends, Patterns and problems of urbanization in the world

Note: The examination would be of Three hours duration. The Question Paper would contain 10 questions- Two questions from each of the given five units spread equally over the whole syllabus. Maximum marks are 30 for B.A. and 45 for B.Sc. candidates. Each question will carry equal marks. The candidate required to attempt five questions in all, selecting at-least one question from each of the five units respectively. It is to be noted that the choice of questions will be permitted within the concerned unit only.

Suggested Readings
Suggested Readings

Climatology


Oceanography

Paper VI CARTOGRAPHY-II (Map work and Field Work)

Objectives:

The objectives of this course are to train the students in the art of representing demographic and socio-economic database of any area through simple statistical techniques and cartograms. The techniques of surveying and map projections necessary for accurate geographical positioning and preparing physical plans of an area also form parts of the practical exercises. This course thus trains the students in preparing different types of maps.

Course Contents:

Unit-I Types of cartographic symbols and their uses: (a) Points (dots, proportional circles and spheres) (b) Line, (isopleths (c) Areas (Choropleth) Representation of temperature, pressure and rainfall data by Isopleth lines, (examples isotherms, isobars and isolysets): and Representation of population (distribution, density, growth etc., land-use cropping pattern and industries data etc.

Unit-II Use of Line and Bar Graphs/Diagrams for representing population, agricultural, industrial and climatic data.

Unit-III Drawing of climographs and hythergraphs and their interpretation- Weather maps of India published by Indian Meteorological Department for July and January: Interpretation of Weather Maps.

Unit-IV Use of Mean, Median and Mode, and Standard Deviation in data analysis and mapping- scatter diagram- association and relationship. Histogram, Frequency curves and polygon.

Unit-V Field Work: Basic Principles of land surveying- Plane table survey (Traversing Methods only)

Note: There would be map work written and field work examination of 4 Hours duration to be conducted in the Geography Laboratory of the College. The question paper would contain 5 questions set by the External and Internal examiners. The candidate will have to attempt any three questions. All questions in map work written carry equal marks.

The distribution of marks in this paper as follows:

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Note: The marks of internal assessment to be based on the attendance of the student.
Paper VII  

GEOGRAPHY OF INDIA

Objective

The course is aimed at presenting a comprehensive, integrated and empirically based profile of India. Besides, the objective is to highlight the linkages of systematic geography of India with the regional personality of the country. The course is designed so as to present the role of the geographical positioning of India in moulding its geopolitical personality and its inter-relations with other countries.

Course contents:

Unit-I  
India: A land of diversities-Unity within diversities; A detailed study of Physiographic Divisions of India; Drainage systems of India.

Unit-II  
Regional and seasonal variations of climate- The monsoon, western disturbance, northerners, Climatic regions of India (Koppen and Trewartha) Soil types of India-their distribution and characteristics; Vegetation types and their distribution.

Unit-III  

Unit-IV  

Unit-V  
Study of Physical and Economic aspects of Geography of Himachal Pradesh: Geomorphology, Climate, Drainage, Vegetation, Hydropower, and Horticulture

Note:  
The examination would be of Three hours duration. The Question Paper would contain 10 questions- Two questions from each of the given five units spread equally over the whole syllabus. Maximum marks are 30 for B.A. and 45 for B.Sc. candidates. Each question will carry equal marks. The candidate required to attempt five questions in all, selecting at-least one question from each of the five units respectively. It is to be noted that the choice of questions will be permitted within the concerned unit only.
Paper VIII RESOURCES AND ENVIRONMENT

Objectives

The objective of this paper is to provide an overview of resource geography and its interface with environment. The course aims to provide an understanding of the existing reality of resource utilization and environmental depletion; further aims to sensitize the students to the concept of sustainable resource use and sustainable development.

Course Contents:

A. RESOURCES

Unit-I Meaning, nature and components of resources and environment; Classification of resources: renewable and non-renewable: biotic (forests, wild-life, live-stock, fisheries, agricultural crops) and abiotic (land, water, mineral).

Unit-II Distribution and utilization of water mineral and energy resources, their economic and environmental significance and conservation. Types and distribution of forests and fisheries- their economic and environmental significance and conservation. Major soil types and their distribution; problems of soil erosion and soil conservation. Mineral Resources- Iron ore and Energy Resources-Coal and Petroleum.

Unit-III Number, density, growth and distribution of population; population pressure and resource utilization.

B. ENVIRONMENT

Unit-IV Classification of Environment: Natural and Human. Man-environment interrelations with concept of eco system; exploitation of natural resources and environmental hazards.

Unit-V Emerging environmental issues- population explosion; food security; deforestation, global warming, conservation of bio-diversity; sustainable development.

Note: The examination would be of Three hours duration. The Question Paper would contain 10 questions- Two questions from each of the given five units spread equally over the whole syllabus. Maximum marks are 30 for B.A. and 45 for B.Sc. candidates. Each question will carry equal marks. The candidate required to attempt five questions in all, selecting at-least one question from each of the five units respectively. It is to be noted that the choice of questions will be permitted within the concerned unit only.
Unit-I  Map Projections and their classification

Unit-II  Graphical construction and properties of cylindrical and Conical Projections- Simple cylindrical, Equidistant, Equal Area and Mercator's Projection. Conical- Simple conical with one standard parallel, two standard parallel, Bonne's Projection and Polyconic Projection


Unit-IV  Field Work and Field Report: Select any area near the Institution; collect topo- sheets of the area- 1:50,000 scale; Visit the area and identify the landforms, settlements, land-use features and compare the same with the topo-sheets. Draw sketches and maps of the selected area; conduct field work with the help of Survey instrument and incorporate the same in final Field Report.

Unit-V  Basic Principles of Land Surveying- Prismatic Compass Survey (Traversing Methods only)

Note:  There would be map work written and field work examination of 4 Hours duration to be conducted in the concerned Geography Laboratory of the College. The question paper would contain 5 questions to be set by the External and Internal examiners. The candidate will have to attempt any three questions. All questions in map work written carry equal marks.

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Note: The marks of internal assessment to be based on the attendance of the student.
Objectives:
To understand the prevalent issues in environment, society and economy and to provide a geographical interpretation with special reference to India.

Course Contents:

Unit-I  Nature, scope and content of applied geography; identification of problems of interdisciplinary nature (like environment resource base, resource-use, development and disparity).

Unit-II  Issues related to variations in physical environment. Variations in land quality affecting agricultural productivity, environmental degradation, environmental disaster and environmental management.

Unit-III Issues related to human resources, quality vs numbers; social and demographic issues: diversity and disparity; carrying capacity of the earth; human resource use and manpower planning.

Unit-IV Issues related to economy; spatial organization of economic activities (like agriculture, industry, transport, trade, etc.) spatial inequalities-causes and consequences.

Note: The paper has four units. There will be TEN questions in all, at least two from each unit. The candidates are required to attempt FIVE questions, selecting at least one question from each unit. All questions carry equal marks.

Suggested Readings

Objectives:

Course Contents:

Unit-I Definition, scope and significance of Biogeography; Basic ecological principles: Bio energy cycle in the terrestrial ecosystem; energy budget of the earth; Trophic levels and food chain; Darwin’s theory of evolution; Concepts of Biome, Ecotone and Community.

Unit-II Origin of fauna and flora; major gene-centres; domestication of plants and animals and their dispersal agents and roots. Distribution of plant life on the earth and its relation to soil, climate and human activities; Geographical distribution of animal life on the earth and its relation to vegetation types, climate and human activities.

Unit-IV Communities- nature of communities and ecosystems; bio-diversities; human induced community change, habitat decay and conservation. Industrial effluent and its effect on fresh water and marine biology; management practices (special reference to India)

Unit-V Study of any two of the following ecological regions of India in relation to their plant and animal life, their interrelations, problems, conservation and management: (a) Mangrove (b) Tropical rainforest (c) Desert (d) Mountain (e) Fresh water and marine.

Note: The paper has four units. There will be TEN questions in all, at least two from each unit. The candidates are required to attempt FIVE questions, selecting at least one question from each unit. All questions carry equal marks.

Suggested Readings

Course Contents:

Unit-I Nature, scope and subject matter of political geography, political geography and geopolitics.
- approaches to the study of political geography; morphological, functional and unified field theory.
- Role of Physical, demographic, economic, socio-cultural and historical factors in the emergence of States.

Unit-II State as a politico-territorial phenomenon:
- Changing nature of location, size and shape in political geography of States;
- Political and administrative framework and its hierarchical relationship to unitary and federal forms of governance
- Boundaries and frontiers.
- Functions and classification of international boundaries.

Unit-III Global strategic views: the views of Mackinder, Spykman, de Seversky, and Mahan and their relevance to contemporary world situation.

Unit-IV Underdevelopment and international policies, the North-South dialogue, SAARC and ASEAN the new International Economic order;
International tensions, identification of tension areas and factors contributing to tension in different areas; West Asia, and Indian Ocean region; Regionalism in International relations.

Unit-V Geopolitical dimensions of environment

Note: The paper has five units. There will be TEN questions in all, at least two from each unit. The candidates are required to attempt FIVE questions, selecting at least one question from each unit. All questions carry equal marks.

Suggested Readings
Course contents:

Unit-I  Definition, nature, scope and recent trends of economic geography, its relation with economics, and allied subjects. Classification of economies, local and spatial organization; Sectors of economy-primary, secondary and tertiary; the impact of economic activities on environment.

Unit-II Natural resources, classification-renewable and non-renewable-biotic and abiotic. Conservation of resources, changing nature of economic activities; mining, forestry, agriculture, industry, trade and transport.

Unit-III Agriculture-physical, social, cultural environment influencing crop production; Spatial distribution of major food and cash crops of the world; Agricultural types and classification.

Unit-IV Minerals and Industries-classification of minerals: ferrous and non-ferrous and their world distribution, energy minerals and resources. Industries: factors of localization, Major industries-iron and steel, textile, chemicals, cement, paper, ship buildings and small scale and cottage industries.

Unit-V Trade and Transport: geographical factors in their development. Major water, land and air transport. Internal and international trade. World Trade Organization (WTO) and globalization and their effect on developing countries of the world.

Note: The paper has five units. There will be TEN questions in all, at least two from each unit. The candidates are required to attempt FIVE questions, selecting at least one question from each unit. All questions carry equal marks.

Suggested Readings

Course Contents:

Unit-I  Nature, scope and contents of Population Geography; sources of data.

Unit-II Spatial pattern of distribution- distribution, density and growth of population; determinants of world regional patterns, the Indian Scene.

Unit-III Composition of Population: Age and Sex composition; rural-urban composition, economic composition; determinants; world regional patterns; composition of population in India.

Unit-IV Migration: Classification, determinants and consequences of migration; world regional patterns; migration in India.

Unit-V Population and Environment interface: Cause-effect syndrome; global and Indian profile.

Note: The paper has five units. There will be TEN questions in all, at least two from each unit. The candidates are required to attempt FIVE questions, selecting at least one question from each unit. All questions carry equal marks.

Suggested Readings

SETTLEMENT GEOGRAPHY

Course Contents:

Unit-I  Nature, scope and content. Definition of urban and rural settlements: merits and limitations.

Unit-II Settlement site and structure: internal morphology, external form; field patterns, functions, house-types.

Unit-III Spatial Organization: size, spacing and hierarchy of settlements; emergence and characteristics of urban settlements.

Unit-IV Settlement-Environment relationship, global and regional pattern; policies and programmes.

Unit-V Salient features of human settlements in India.

Note: The paper has five units. There will be TEN questions in all, at least two from each unit. The candidates are required to attempt FIVE questions, selecting at least one question from each unit. All questions carry equal marks.

Suggested Readings

Course Contents:

Unit-I  The Earth: shape, size, areas and great circles-coordinate system: plane and spherical, latitude and longitude, direction and distance. Map design and layout concept of base map.

Unit-II  Mapping: Quantitative, Qualitative-print, line, area and volume-size, location, and direction of symbols-selection of class intervals and choropleth and isopleth maps.

Unit-III Map projections: scale and projection-deformation. Classification and choice of map projections-properties, merits and demerits of Cylindrical, Conical, Zenithal and Conventional projections. Projections suitable for maps of India.

Unit-IV Technology and its application in Cartography: aerial photos and satellite data, generating cartographic data from aerial photographs and remote sensing data products application of computer in cartography-cartography and GIS.

Unit-V Basics of map-making: compilation: determination of scale-generalization: elements, controls, simplification, symbolization: Kinds of symbols-visual perceptions.

Field work

(i) Choose an area near to the Department of Geography and prepare base maps of the area. The base map should include the characteristic landforms, drainage and broad land use, settlements and transport line.

(ii) Conduct a field visit of the area to acquire knowledge about interpretation of the features depicted on the base map and identification of the features mentioned above as one observes on the ground.

(iii) Consolidate the salient features in the form of brief write up.

Suggested Reading:


Course Contents:

Unit-I Basics of regionalisation: Determinants and world regions
Unit-II Natural and Cultural Regions: Physical Resources
Unit-III Natural and Cultural regions: Human Resources
Unit-IV Natural and Cultural regions: Economic Resources
Unit-V Regions in globalized world with special reference to environmental problems arising out of development and under development.

Suggested Readings