BHARATHIAR UNIVERSITY, COIMBATORE-641 046
B.Sc. GEOGRAPHY (CBCS PATTERN)

(For the students admitted during the academic year 2011-2012 and onwards)

SCHEME OF EXAMINATIONS

<table>
<thead>
<tr>
<th>Part</th>
<th>Study Components</th>
<th>Course Title</th>
<th>Ins. hrs / week</th>
<th>Exam</th>
<th>Dur. Hrs.</th>
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<th>Marks</th>
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### Semester IV

| I  | Language-IV | 6  | 3  | 25 | 75 | 100 | 4  |
| II | English-IV  | 6  | 3  | 25 | 75 | 100 | 4  |
| III| Core VII – Oceanography | 4  | 3  | 20 | 55 | 75  | 3  |
| III| Core VIII – Practical – Map Interpretation and Representation of Climatic Data | 4  | 3  | 40 | 60 | 100 | 4  |
| III| Allied : IV Cartography Practical | 5  | 3  | 40 | 60 | 100 | 4  |
| IV | Skill Based Subject - Basics of GIS & GPS | 3  | 3  | 20 | 55 | 75  | 3  |
| IV | Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness#) | 2  | 3  | 50 | 50 | 2   |

### Semester V

| III| Core IX – Geography of Natural Regions of The World | 6  | 3  | 25 | 75 | 100 | 4  |
| III| Core X – Geography of Tamilnadu | 6  | 3  | 20 | 55 | 75  | 3  |
| III| Core XI – Geography of Resources-I | 6  | 3  | 25 | 75 | 100 | 4  |
| III| Core XII – Remote Sensing and GIS | 5  | 3  | 25 | 75 | 100 | 4  |
| III| Elective –I | 4  | 3  | 25 | 75 | 100 | 4  |
| IV | Skill based Subject - Comptuer Applications in Geography | 3  | 3  | 20 | 55 | 75  | 3  |

### Semester VI

| III| Core XIII – Geography of Resources-II | 6  | 3  | 25 | 75 | 100 | 4  |
| III| Core XIV - Environmental Studies and Management | 6  | 3  | 25 | 75 | 100 | 4  |
| III| Core XV – Surveying & Interpretation of Aerial Photos and Satellite Images : Practical | 5  | 3  | 40 | 60 | 100 | 4  |
| III| Elective –II | 5  | 3  | 25 | 75 | 100 | 4  |
| III| Elective - III | 5  | 3  | 25 | 75 | 100 | 4  |
| IV | Skill based Subject - Computer Applications in Geography Practical | 3  | 3  | 30 | 45 | 75  | 3  |
| V  | Extension Activities @ | -  | -  | 50 | -  | 50  | 2  |
| Total | 3500 | 140 |

@  No University Examinations. Only Continuous Internal Assessment (CIA)
#  No Continuous Internal Assessment (CIA). Only University Examinations.

#### List of Elective papers (Colleges can choose any one of the paper as electives)

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<td>A</td>
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<td>B</td>
<td>Geography of Tourism</td>
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<td>C</td>
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<tr>
<td>A</td>
<td>Political Geography</td>
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<tr>
<td>B</td>
<td>Geography of USA</td>
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<td>C</td>
<td>Regional Geography of Middle East</td>
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<tr>
<td>B</td>
<td>Geography of Japan</td>
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<tr>
<td>C</td>
<td>Medical Geography</td>
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SEMESTER – I
CORE PAPER – I
FUNDAMENTALS OF GEOMORPHOLOGY-I

UNIT I

UNIT II

UNIT III
Earthquakes and Volcanoes – Definition, Causes, types – Distribution and effects.

UNIT IV

UNIT V

BOOKS FOR REFERENCE:
SEMESTER – I
CORE PAPER-II

GEOGRAPHY OF INDIA

UNIT I
Location – Physiography – Drainage – Climate – Major Soil Types – Natural Vegetation.

UNIT II

UNIT III

UNIT IV

UNIT V

BOOKS FOR REFERENCE
4. Dubey R.N. & Negi Economic Geography of India.
5. Sigh R.L.(1987), India a Regional Geography, UBS Publishers & Distributors Ltd.,
SEMESTER-II

CORE PAPER-II

FUNDAMENTALS OF GEOMORPHOLOGY-II

UNIT I


Types – Resultant features.

UNIT II

Darainage pattern

Agents of Erosion : Running water – Erosional & Depositional Landforms

Concept of Normal Cycle of Erosion by Davis

UNIT III

Glaciers – Types – Erosional & Depositional Landforms.

UNIT IV

Wind – Aeolian Landforms – Wave – Coastal Landforms.

UNIT V


Applied Geomorphology

BOOKS FOR REFERENCE

SEMESTER – II
CORE PAPER - IV

BASICS OF MAP MAKING - PRACTICAL

UNIT I

Maps – importance and role in Geography – Types and uses of Maps – Types of Scales: Linear and comparative Scales.

UNIT II

Enlargement, Reduction and Combination of Maps – Measurement of area and distance – Bearing and Directions.

UNIT III

Representation of Relief – different methods – Interpolation of contours – Cross section of selected features.

UNIT IV

Profiles: Serial, Superimposed, Projected, Composite profiles – River profile – Longitudinal and transverse.

UNIT V

RECORD.

BOOKS FOR REFERENCE

1. Ragunandan Singh & Kanuja, Map work and Practical Geography, Centrl Books depot Allahabad.
SEMESTER III
CORE PAPER V

CLIMATOLOGY

UNIT I
Atmosphere: Composition - Structure – Green house effect
Insolation – Heat balance.
Inversion of temperature
Factors affecting the horizontal distribution of temperature.

UNIT II
Atmospheric pressure – Thermal and dynamic origin – pressure gradient - Vertical and Horizontal distribution
Wind – General circulation – planetary winds – Seasonal winds – Local winds

UNIT III
Humidity
Condensation – forms of condensation
Precipitation – forms of precipitation – types of rainfall.

UNIT IV
Air masses – types.
Fronts – types.
Cyclone - types
Extra tropical cyclones - Tropical Cyclones and Tornadoes

UNIT IV
Koppen’s Climatic Classification.
Extreme Weather – Case studies.

BOOKS FOR REFERENCE:
2. Critchfield – Climatology Prentice Hall of India.
3. Lake P – Physical Geography.
SEMESTER III
CORE PAPER VI

POPULATION AND SETTLEMENT

UNIT I

Population Geography – Scope – Content
Factors affecting population distribution
Population distribution : World – India.

UNIT II

Population growth – Factors affecting Population growth
Demographic Transition
Population composition and Structure
Fertility and Mortality rates.

UNIT III

Human Migration – Factors – Causes & Consequences – Types of Migration –

UNIT IV

Settlements-Types
Site and situation
Classification of settlements : Functional – Census
Urban land use theories : Concentric – Sector – Multiple Nuclei.

UNIT V

Urban centres : Growth and development – associated problems
Metropolis, Megalopolis and Conurbation
Functional zones of Coimbatore, Chennai & Delhi.

REFERENCE BOOKS:

3. Mayor HN & Kohn. CF Reading in Urban Geography.
SEMESTER III
ALLIED PAPER III

ELEMENTS OF CARTOGRAPHY

Unit I
Maps: Definition, types, uses – scope and content of cartography – branches of cartography – development of cartography from ancient to recent period.

Unit II
Geographic coordinates – types of north – problems of transforming spherical surface to plane surface
Map projections – classification and types including UTM – properties, limitations.

Unit III

Unit IV

Unit V
Map compilation and generalization – base map compilation, generalization and finalization.

BOOKS FOR REFERENCE:
B.Sc. GEOGRAPHY
Skill Based Subject
Paper I : Basics in Computers

1) Introduction
   • History of Computers
   • Meaning of Computers
   • Advantage of Computers

2) Uses of Computers
   • In Business
   • Industry
   • At Home
   • At Play
   • In Education
   • In Training
   • In Entertainment
   • In Arts
   • In Science
   • In Engineering
   • In Mathematics

3) Types of Computers
   • According to purpose
     o General Purpose
     o Special Purpose
   • According to type
     o Analog Computer
     o Thermometer
     o Speedometer
     o Digital Computer
     o Hybrid Computer
   • Super Computer
     o Main Frame
     o Mini Computer
     o Micro Computer

4) Parts of a Computer
   • Input Devices
     o Key Boards
     o Mouse, Joystick
     o Optical Scanner
     o Light Pen
     o Touch Screen
     o Voice Data
     o Swart Cards
   • The Central Processing Unit
     o Main Memory
     • Arithmetic Logic Unit
     • Control Unit
o Secondary Storage Storage Devices
   Magnetic Disk
   Optical Disk
   Magnetic Tape
• Output Devices
  o Printers
  o Plotters
  o Screen
  o Robot
5) Computer Hardware and Software
  • Meaning of Hardware
  • Meaning of Software
  o Classification of Software
   Systems Software
   Application Software

References:
1) Alexis Leon, Mathews Leon, ”Introduction to Computers”, Leon Techworld. 1999
4) Rajaraman. V”Fundamentals of Computers”
5) Ram.B, ”Computer Fundamentals”

SEMESTER IV
CORE PAPER VII

Oceanography

Unit –I

Oceanography : Definition, scope & importance
General distribution of land & water
General relief of the oceans

Unit II
Bottom relief of Atlantic, Pacific & Indian oceans

Unit –III

Temperature of ocean water: Horizontal & Vertical distribution of temperature
salinity : Horizontal distribution of salinity
Ocean currents : types- current circulation in Atlantic, Pacific & Indian oceans.

Unit -IV

Waves & Tides : Types and causes
Theories regarding their origin: The equilibrium theory, progressive wave theory, stationary wave theory.

**Unit V**


Books for reference:


**SEMESTER IV CORE PAPER VIII**

**MAP INTERPRETATION AND REPRESENTATION OF CLIMATIC DATA - PRACTICAL**

**UNIT I**
Survey of India Maps
Conventional signs and symbols
Topographic maps – Cartographic appreciation – Interpretation of Topographic maps

**UNIT II**
Weather Maps:– Signs and Symbols - Station model – Interpretation of Indian Daily Weather Report

**UNIT III**
Climatic Graphs:– Climograph – Taylor’s climograph - Hythergraph and Ergo graph.

**UNIT IV**
Climatic Diagrams : Rainfall Dispersion Diagram
Wind Rose diagrams : Simple, Star, Octagonal and Compound
UNIT V

RECORDS – 20 MARKS.

BOOKS FOR STUDY

R.L. Singh; Elements of Practical Geography.
John Boygott; Map work and Practical Geography
Ragunandan Singh & K. ananjia – Map work and Practical Geography.
William Bayley Lipton – Landforms and Topographic maps.
Vaidyanathan R – Index to the study of Topographic maps.

SEMESTER IV ALLIED PAPER IV

CARTOGRAPHY - PRACTICAL

UNIT I
Map Setting
Map Reading.

UNIT II
Projections – Cylindrical & Conical.
Construction, Uses & Properties.

UNIT III
Projections – Zenithal & Conventional (Sinusoidal and Molleweide)
Construction, Uses & Properties.

UNIT IV
Mapping of socio economic data.

UNIT V
Record.
SEMESTER IV
Sill Based Subject

BASICS OF GIS AND GPS

UNIT I
GIS: Development – Scope – Components of GIS

UNIT II
Types of data: Spatial and attribute data – Raster and Vector data Models – their characteristics.

UNIT III
Methods of data input – Storage – Data quality – Data out put.

UNIT IV
Data analysis – Application of GIS in various fields.

UNIT V

Reference:

SEMESTER V

CORE PAPER IX

GEOGRAPHY OF NATURAL REGIONS OF THE WORLD

UNIT I
Region – definition – Methods of delineation of regions – formal and functional regions.
Natural components of regions – Landforms: Types and Distribution
Climate: Types and Distribution.

UNIT II
Soils: Types and Distribution
Natural Vegetation: Types and Distribution.
Basis of Regionalization.

UNIT III
Equatorial region – Lowland and Highland
Tropical region – Monsoon, grassland and deserts

UNIT IV
Warm Temperate region – Mediterranean, Temperate grasslands and China Type.
Cool Temperate region – West coast Marine, Lawrentian type.

UNIT V
Siberian region- Taiga type
Polar region: Highland of icecap, Lowland or Tundra.

REFERENCE:
SEMESTER V

CORE PAPER X

GEOGRAPHY OF TAMILNADU

UNIT I

Location and Geographical extent – Physical Divisions – Climate — Drainage – Soils – Natural vegetation.

UNIT II


UNIT III


UNIT IV


UNIT V


BOOKS FOR REFERENCE

1. India and Pakistan – Spate OHK & Learmonth.
2. Field Crops of India – Sathy Narayanan.
4. Tamilnadu – An Economic Appraisal.
SEMESTER V     CORE PAPER XI

GEOGRAPHY OF RESOURCES-I

UNIT I
Scope and Content – Nature and Classification of resources – Characteristics and their
distribution – Utilization and conservation of resources.

UNIT II
Soil resources – Formation – Soil profile – World classification of Soils – Characteristics of
important soil types – Soil erosion and conservation.

UNIT III
Forest resources – Equatorial – Tropical – Temperate forest

UNIT IV
Livestock: Cattle – types – distribution
Sheep and goats distribution
Pigs and poultry – growth and distribution. Marine resources – World’s fisheries – Major fishing
grounds of the world – Fisheries of Atlantic, Pacific and Indian Oceans – Important fishing
harbours of the world, Oceans as the future store house of the world.

UNIT V
Agricultural resources: Factors affecting agriculture – World agriculture types
World distribution of food crops – Rice and Wheat Commercial agriculture – Important
commercial crops: Cotton and Sugarcane

BOOKS FOR STUDY
1. Economic Geography – An appraisal of Resources Sadhukhan S.K.
2. Economic and Commercial Geography Negi. B.S.
3. Economic and Commercial Geography – Prof. Qazi S.A.
5. Economic Geography – Alexander J.W.
SEMESTER V       CORE PAPER XII

REMOTE SENSING AND GIS

UNIT I

UNIT II

UNIT III

UNIT IV
Remote sensing applications in Geography:
Water resources – Study of Forest, land use and agriculture – Mineral exploration – Urban studies – Planning.

UNIT V
GIS and GPS: Scope – content – Digital data analysis
Data structure – Raster & Vector data
GIS & GPS – Significance & their application in different fields.

REFERENCE BOOKS:
SEMESTER V – Skill Based Subject

COMPUTER APPLICATIONS IN GEOGRAPHY


   Computer applications in physical geography: geomorphological, hydrological, atmospheric and oceanographic applications – merits and limitations.


4. Role of computers in the development of remote sensing and geographical Information system – their applications in geography – Internet and its uses – world wide web.

REFERENCES:

SEMESTER VI  
CORE PAPER XIII

GEOGRAPHY OF RESOURCES II

UNIT I

Over fishing – need for conservation – fishing in India

UNIT II


UNIT III

Minerals and power resources – Types, Significance, Distribution and production of Iron ore, Bauxite, Copper, Manganese, Tin, mica– Coal, Petroleum, Natural gas and Atomic power.

UNIT IV

Industrial resources: Localization factors and distribution of Iron and Steel industry – Ship building – Aircraft – Automobile – Cement - Chemical and Textile industries of the world.

UNIT V

Transport and Trade: Major transport systems of the world – Road, Rail and Air transport – Inland water ways and Ocean transport, Composition of International trade – Pattern of trade – Balance of Trade – Recent trends and trade organizations.
SEMESTER VI CORE PAPER XIV

ENVIRONMENTAL STUDIES AND MANAGEMENT

UNIT I

Environment – Meaning – Components – Geography and Environment
Fundamental concepts in Environmental Geography.

UNIT II

Ecosystems – Meaning – Types – Components.
Transformation of energy in the ecosystem – Food chains, Food Webs.

UNIT III

Natural hazards
Environmental degradation – Meaning and types.
Human impact on the environment – deforestation, soil erosion and degradation,
Landslides, Salinisation, Desertification.
Population growth and food supply.
Global climatic change – Global warming.

UNIT IV

Man induced Hazards – Air pollution, Water pollution, Land pollution.
Case studies from the world and India.
Waste management – the problem of toxic wastes.

UNIT V

Environmental impact assessment – Meaning and concept.
Case study of Sardar Sarovar Project and Tehri Dam.
The role of environmental movements in protecting the environment – case studies – world and national level.
SEMESTER VI      CORE XV

SURVEY & INTERPRETATION OF AERIAL PHOTOS AND SATELLITE IMAGES - PRACTICAL

UNIT I
Land Surveying: Chain Surveying:– Open and closed Traverses, Prismatic Compass:– Open and closed Traverse, Plane table Surveying.

UNIT II
Height Measurement & Leveling: Indian Clinometers: Accessible and Inaccessible bases, Abney level base: Accessible and Inaccessible, Dumpy level; Level difference and height measurement.

UNIT III
Air photo interpretation: Types of air photo – Stereoscopic vision and interpretation of air photos.

UNIT IV
Satellite image interpretation:– Interpretation of Single band and Multiband data, True Colour and False Colour composites.

UNIT V
RECORD

BOOKS FOR STUDY
Regunandan Singh & Kamujia – Map work and practical Geography – Central book Debot – Allahabad.
Bygott, Map work and practical Geography – University Tutorial press – London.

SEMESTER VI      Skill Based Subject

COMPUTER APPLICATIONS IN GEOGRAPHY - PRACTICAL

1. Basic Computer operations – Use of MS WORD and MS ACCESS.
2. Drawing of diagrams and graphs using Computers.
3. Elementary Image Processing techniques.
4. Raster and Vector data: Digitization and Scanning – Creation of data files.
ELECTIVE I - A

URBAN GEOGRAPHY

UNIT I

Settlement Geography – Branches – Urban Geography – Scope & Content

UNIT II

Urban centers – Definition – Site and Situation
Classification of Towns – Functional and Census.
Urban morphology – Land use models

UNIT III

Size and spacing of urban centers: Zipf’s Rank size Rule
Christaller’s Central Place Theory – Principles of nesting.

UNIT IV

Urbanization process: City growth – Metropolis, Megalopolis, Conurbation.
Urban Problems: housing, transport and pollution.

UNIT V

Urban expansion: horizontal and vertical – urban sprawl – urban fringe – Umland - Sub urbanization

BOOKS FOR REFERENCE:

2. Cartes H. The study of Urban Geography, Edward Arnold London.
ELECTIVE I - B

GEOGRAPHY OF TOURISM

UNIT I
Definition of tourism – Determinants & Motivators of tourism - Development of tourism

UNIT II
Elements of tourism – Attractions –Accessibility & Amenities.

UNIT III
Organisation of tourism - The structure and role of National tourist Organisation - Tourist Organisation in India – The future of Indian tourism.

UNIT IV
Transport and tourism – Role of air, Water and surface transports.

UNIT V
Accommodations – types - Role of travel agencies and travel intermediaries.

REFERENCES:


ELECTIVE I – C

BIO GEOGRAPHY

UNIT – I

Bio Geography – Ecological factors of the land and their effect on plants and animals

UNIT – II

Soil – Nature - Formation – Soil Profile – Soil types

UNIT – III

Forests Biomes

UNIT – IV

Grassland Biomes

UNIT – V

Desert Biomes

BOOKS FOR REFERENCES :

Huggett.R.J : Fundamentals of Biogeography, Rout ledge, USA.


ELECTIVE II - A

POLITICAL GEOGRAPHY

UNIT –1
Scope & content of political Geography, Geopolitics. State:- Powers and functions of the State-
Categories of the State-Nations and Nationalism.

UNIT-11
Core areas Types, Capitals: Types, Morphological classification, Factors of development.

UNIT-111
Frontiers and Boundaries: Definition, Boundary classification: Genetic , functional.
Morphological classification (Buffer zone - Land locked countries) -Border disputes.

UNIT - IV
Electoral geography: Geography of elections - Geography of campaigning, voting pattern, voters
participation - Gerry mandering - Election Commission.

UNIT-V
Political Geography of India - Integration of Indian states - integration of Sikkim -, India’s
border relationship with China-Pakistan- Bangladesh and Srilanka - Indian's Foreign policy

Books for Study

publishing Co., New Delhi, 1982.


ELECTIVE II – B

GEOGRAPHY OF U.S.A.

UNIT I:
Location, physiography, drainage, climate, soils and natural vegetation

UNIT II:
Mineral Resources
Agriculture- patterns of agriculture - Agricultural regions.
Important mineral resources and their distribution

UNIT III
Major Industries - Industrial regions

UNIT IV:
Population – growth, characteristics, distribution

UNIT V:
Trade and transport

References:


ELECTIVE II - C

REGIONAL GEOGRAPHY OF THE MIDDLE EAST (SOUTH WEST ASIA)

Unit I:
Defining the Middle East
Regional structure- Arabian peninsular and the fertile crescent
Landforms, Drainage, Climate, Soils and Natural vegetation

Unit II
Nomadism in SW Asia and
Agriculture in SW Asia

Unit III:
Fossil fuels in South West Asia-
Other Minerals of the region – iron ore, phosphates.
Industries- shipbuilding, petrochemicals, automobiles

Unit IV:
Population distribution; Diversity and growth rate-
Cultures of South west asia and
Settlement characteristics of the region

UNIT V:
Transport and Trade - Major environmental issues of the region-
Major conflicts in the region

References:


ELECTIVE III - A

REGIONAL GEOGRAPHY OF SOUTH EAST ASIA

UNIT I

UNIT II

UNIT III

UNIT IV

UNIT V

BOOKS FOR STUDY:
2. George B.Cressey – Asia’s lands and people.
5. Dudley Stamp. L. India, Pakistan, Ceylon and Burma.
10. உலக இந்து விளக்கம் - விளக்க இந்தோனேசியா.
ELECTIVE III - B

GEOGRAPHY OF JAPAN

Unit I
Location – Significance – Physiography – Climate – Natural Vegetation and Soils.

Unit II
Agriculture – Crops – Characteristics.

Unit III
Mineral and Power resources

Unit IV
Industries and Industrial Regions

Unit V
Population – Growth and Distribution – Transport and Trade

References:


ELECTIVE III - C

MEDICAL GEOGRAPHY

Unit 1: Scope and Content – Development of Medical Geography.

Unit 2: Geography of Health – Definition and Classification: Environmental Health, Mental Health and Occupational Health – Nutrition and Health.

Unit 3: Classification of Human Diseases – Pattern and Diffusion.

Unit 4: Medical Statistics – Measurements – Medical Cartography: Disease mapping.

Unit 5: Health Care Delivery and Health Care Planning.

References:


