### BHARATHIAR UNIVERSITY, COIMBATORE-641 046

**B.S.C. GEOGRAPHY (CBCS PATTERN)**

(For the students admitted during the academic year 2008-2009 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>Dur. Hrs.</th>
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| Total          | - | - | 3700 | 140 |

* - FOR RECORD ONLY
@ 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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<tr>
<td>B</td>
<td>Geography of Tourism</td>
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<td>C</td>
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<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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<td>B</td>
<td>Geography of Japan</td>
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<td>C</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:

ELECTIVE I – C 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:


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 EconomicGeography 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**


**UNIT II**


**UNIT III**

Glaciers – Types – Erosional & Depositional Landforms.

**UNIT IV**

Wind – Aeolian Landforms – Wave – Coastal Landforms.

**UNIT V**

Concept of Normal Cycle of Erosion by Davis – Applied Geomorphology with reference to engineering and hydrological studies.

**BOOKS FOR REFERENCE**

SEMESTER – II  
CORE PAPER - IV  

BASICS OF MAPMAKING 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 – Structure – Composition – Green house effect
Insolation – Heat balance.
Inversion of temperature
Factors affecting the horizontal distribution of temperature – Horizontal distribution of temperature.

UNIT II
Atmospheric pressure – Vertical and Horizontal distribution – Thermal and dynamic origins – pressure gradient.

UNIT III
Air masses – lapse rates – forms of condensation.
Fronts – Temperate cyclones – Origin and Development.
Tornadoes and Tropical Cyclones – Origin and Development.

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.
SEMMESTER III
CORE PAPER VI

POPULATION AND SETTLEMENT

UNIT I


UNIT II


UNIT III


UNIT IV


UNIT V


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 cartography – branches of cartography – development of cartography from ancient to recent period.

Unit II
Geographic coordinates – types of north – problems of transforming spherical surface – Map projections – classification 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  
(Diploma Course)  
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 Anolog Computer
  o Thermometer
  o Speedometer
  o Digital Computer
  o Hybrid Computer
• Super Computer
  o Main Frame
  o Mini Computer
  o Micro Computer

4) Computer 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
  o Arithmetic Logic Unit
  o Control Unit
  o Secondary Storage Storage Devices
5) **Computer Hardware and Software**

- Meaning of Hardware
- Meaning of Software
- Classification of Software
  - Systems Software
  - Application Software

**References:**

1. Alexis Leon, Mathews Leon, ”Introduction to Computers”, Leon Techworld. 1999
5. Ram.B,”Computer Fundamentals”

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**SEMESTER IV**

**CORE PAPER VII**

**Oceanography**

**Unit –I**

Definition, scope & importance of oceanography – place in Geography – General distribution of land & sea – Area & depth of oceans – Hypsographic curve – zones of ocean bottom accounting to depth – Continental shelf- Continental slope, Deep sea plain & deeps. (No theories)

**Unit II**

Bottom relief of Atlantic, Pacific & Indian oceans, Horizontal & Vertical distribution of temperature in oceans.

**Unit –III**

Unit -IV

Waves & Tides – Movement of the ocean – speed of waves – Breaking of waves – Tides – Tide producing forces – types of tide – theories regarding origin of tides - The equilibrium theory, progressive wave theory, stationary wave theory.

Unit -V


Books for reference:

SEMESTER IV CORE PAPER VIII

MAP INTERPRETATION AND CLIMATIC DIAGRAMS PRACTICAL

UNIT I
Survey of India – inception – Maps produced by survey of India – Topographic maps – conventional signs and symbols – Cartographic appreciation – Interpretation of Topographic maps of the scale of 1:63360, 1:50000 and 1:250000.

UNIT II
Department of Meteorology – Weather forecasting and Tsunami warning centres – Indian daily weather report – Signs and Symbols – Interpretation of daily weather report maps – Station model – Cyclonic track.

UNIT III
Climatic diagrams – Simple climatic graphs – Climographs – Taylor’s climograph, Hythergraph and Ergo graph.
UNIT IV


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.
Construction, Uses & Conventional.

UNIT IV
Mapping of socio economic data.

UNIT V
Record.
SEMESTER IV
DIPLOMA PAPER II

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 output.

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  
Polar region: Highland of icecap, Lowland or Tundra.

REFERENCE:  

SEMESTER V  

CORE PAPER X  

GEOGRAPHY OF TAMILNADU

UNIT I  
UNIT II


UNIT III


UNIT IV


UNIT V


BOOKS FOR REFERENCE

1. India and Pakistan – Spate OHK & Learmonth.
2. Field Crops of India – Sathya 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
UNIT III
Forest resources – Equatorial rainforest – Tropical deciduous forest – Temperate Conical forest –
Grass lands – Steppe grass lands – Prairies and the Savannas.

UNIT IV
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: Determinants of agriculture – World agriculture types – Methods of
cultivation – Cropping Techniques – Benefits of Inter-cropping method – Food crops – Rice and
Wheat – Commercial agriculture – Important commercial crops like Cotton, Sugarcane and

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
sensing systems.

UNIT II
Aerial Remote sensing – Air Photo – Axis – Lens, Film – Scale types – Uses – Stereo
Scopic vision – Elements of Air photo interpretation.

UNIT III
Satellite Remote sensing – Types of satellites – Resolutions – Landsat – SPOT – IRS
images – Marginal information – Types of Satellite products interpretations.

UNIT IV
Remote sensing applications in Geography – Water resources – Study of Forest land use
UNIT V


REFERENCE BOOKS:

SEMESTER V – DIPLOMA PAPER III

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**

**UNIT II**

**UNIT III**
Minerals and power resources – Types, Significance, Distribution and production of Iron ore, Bauxite, Copper, Manganese, Tin, Zinc, Lead, Mica and Gypsum – 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.

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**SEMESTER VI**

**CORE PAPER XIV**

**ENVIRONMENTAL STUDIES AND MANAGEMENT**

**UNIT I**
Environment – Meaning – Components – Geography and Environmental 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

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          DIPLOMA PAPER IV
COMPUTER APPLICATIONS IN GEOGRAPHY PRACTICAL

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 – Factors –

UNIT II
Urban centres – Definition – Site and Situation – Urban systems – Urban morphology –
Urban zones – Classification of Towns – Functional – Census.

UNIT III

UNIT IV
Metropolitan cities – Urban Regions – World – India – Umland – Characteristics – Sub
urbanization.

UNIT V
Urban Centres – Growth centres – Size – Space, Rank size rule, Central place Theory –
Urban problems – Pollution, Transport – Slums.

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
Climate:
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
Boundaries and Frontiers: Definition, Boundary classification: Genetic or I 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 status - integration of Sikkim -, India’s border relationship with China-Pakistan- Bangladesh and Sri Lanka - Indian’s I Foreign policy,

Books for Study

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.

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. fpU#;z\h;jjp.$p - bjd;fpHf;F Mrpah.
ELECTIVE III - B
GEOGRAPHY OF JAPAN

Unit 1
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: