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

(For the students admitted during the academic year 2012-2013 and onwards)

SCHEME OF EXAMINATIONS

<table>
<thead>
<tr>
<th>Part</th>
<th>Study Components</th>
<th>Course Title</th>
<th>Ins. hrs / week</th>
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<td>IV Skill Based Subject - Basics in Computers</td>
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#### Semester V

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<td>Core IX – Geography of Natural Regions of The World</td>
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#### Semester VI

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@  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) |
|---------------------------------|-----------------|-----------------|
| Elective – I | A | Urban Geography |
|              | B | Natural Disasters and Management |
|              | C | Bio Geography |
| Elective – II | A | Political Geography |
|               | B | Geography of USA |
|               | C | Regional Geography of Middle East |
| Elective - III | A | Regional Geography of South East Asia |
|               | B | Geography of Japan |
|               | C | Medical Geography |
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


UNIT II

Drainage pattern

Agents of Erosion : Running water – Erosional & Depositional Landforms

Concept of Normal Cycle of Erosion by Davis

UNIT III


UNIT IV

Glaciers – Types – Erosional & Depositional Landforms.

UNIT V

Wind – Aeolian Landforms – Wave – Coastal Landforms

BOOKS FOR REFERENCE

SEMESTER – II
CORE PAPER - IV

BASICS OF MAP MAKING - PRACTICAL

UNIT I


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

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
Climatology – Meaning, nature and content
Atmosphere: Composition - Structure
Insolation – Heat balance
Distribution of temperature-Horizontal and vertical
Factors affecting the horizontal distribution of temperature.

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

UNIT III
Humidity - types
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 V
Koppen’s Climatic Classification.
Extreme Weather – Climatic changes – impacts

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

Unit V

BOOKS FOR REFERENCE:
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
  - General Purpose
  - Special Purpose
- According to type
  - Analog Computer
  - Thermometer
  - Speedometer
  - Digital Computer
  - Hybrid Computer
- Super Computer
  - Main Frame
  - Mini Computer
  - Micro Computer

4) **Parts of a Computer**

- Input Devices
  - Key Boards
  - Mouse, Joystick
  - Optical Scanner
  - Light Pen
  - Touch Screen
  - Voice Data
  - Swart Cards
- The Central Processing Unit
  - Main Memory
  - Arithmetic Logic Unit
  - Control Unit
Secondary Storage Devices
- Magnetic Disk
- Optical Disk
- Magnetic Tape

Output Devices
- Printers
- Plotters
- Screen
- Robot

5) Computer Hardware and Software
- Meaning of Hardware
- Meaning of Software
- Classification of Software
  - Systems Software
  - Application Software

References:
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
Deposits on the ocean floor – Terrigenous & Pelagic deposits – Distribution; Coral reefs– types and formation.

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 Reading
Map Setting.

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.- dot method , bar, pie , circles and sphere, pyramidal diagrams
and distribution maps.

UNIT V
Record.
SEMESTER IV

Syll 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 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- 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 – Sathya Narayanan.
4. Tamilnadu – An Economic Appraisal.
EMESTER 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 – Tropical – Temperate forest – Products and uses.

UNIT IV
Livestock: Cattle – types – distribution
Sheep and goats distribution
Pigs and poultry – growth and distribution and their economic importance.

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 ITS APPLICATIONS IN GEOGRAPHY

UNIT I


UNIT II

Aerial Remote sensing: Air Photo – Camera, Film – Scale types – Uses – Stereoscopic vision – Elements of Air photo interpretation.

UNIT III

Satellite Remote sensing – Types of satellites – Resolutions – Landsat – SPOT – IKONOS – Marginal information

UNIT IV

IRS- development – principles and characteristics – resolutions - ISRO

UNIT V

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

REFERENCE BOOKS:
SEMESTER V – Skill Based Subject

COMPUTER APPLICATIONS IN GEOGRAPHY

UNIT I

Computer Applications in Geography: The need – development and growth – advantages and disadvantages.

UNIT II

Computer assisted cartography – the need – recent trends – applications and limitations.

UNIT III

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

UNIT IV


UNIT V

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  IV

GEOGRAPHY OF TOURISM

UNIT I

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

UNIT II

Elements of tourism – Attractions –Accessibility & Amenities.  
Tourist attractions in India.

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 intermediaters.

REFERENCES:

ELECTIVE I –
ELECTIVE I - A

URBAN GEOGRAPHY

UNIT I

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 – Primate city
Christaller’s Central Place Theory – Urban hierarchy

UNIT IV

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

UNIT V

slums – crime.
Need for urban planning.

BOOKS FOR REFERENCE:

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

NATURAL DISASTERS AND MANAGEMENT

UNIT I

Disasters – definition – types – need for the study.

UNIT II

Natural disasters: types – Earthquake – causes and effects – Tsunamis - management

UNIT III

Volcanic eruption: Causes and effects – management.

UNIT IV


UNIT V


N.B - Case studies related to each Natural disaster to be cited from India.

BOOKS FOR REFERENCE:

2. The Changing Earth-Exploring Geology & Evolution by James S.Monore & Reed Wicander BROOKS / COLE.
7. Disaster Preparedness in India, Narendra Kumar Jain, Adhyatma Sadhana Kendra, Mehruali, New Delhi.
8. UN Manual on Disaster Management.
9. www.gisdevelopment.net
ELECTIVE I – C

BIO GEOGRAPHY

UNIT – I
Bio Geography – definition – nature and content – branches – need for the study.

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, Routledge, 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


ELECTIVE II – B

GEOGRAPHY OF U.S.A.

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

UNIT II:
Agriculture- patterns of agriculture -Agricultural regions.
Mineral Resources - 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:
Middle East - definition
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 – major crops – distribution and production.

Unit III:
Oil resources –distribution and production
Other Minerals of the region – iron ore, phosphates.
Industries- shipbuilding, petrochemicals, automobiles

Unit IV:
Population growth and distribution
Cultures of South west Asia and
Settlement characteristics of the region

UNIT V:
Transport and Trade - Major environmental issues and 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. கிளோரியம்பார்க்கி - கேல்கலையாளர் கை
ELECTIVE III - B

GEOGRAPHY OF JAPAN

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

Unit II
Agriculture – Crops – Characteristics – distribution and production

Unit III
Mineral and Power resources – distribution and production

Unit IV
Major 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 in India.

References:


