BHARATHIAR UNIVERSITY, COIMBATORE – 641 046

B.Sc., GEOGRAPHY (CBCS PATTERN)

(For the students admitted during the academic year 2017 – 2018 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>
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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 | 25 | 75 | 100 | 4 |
| III | Core VIII – Practical – Map Interpretation and Representation of Climatic Data | 4 | 3 | 40 | 60 | 100 | 4 |
| III | Allied: IV – Practical - Cartography | 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 Tamil Nadu | 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 its Applications in Geography | 5 | 3 | 25 | 75 | 100 | 4 |
| III | Elective – I | 4 | 3 | 25 | 75 | 100 | 4 |
| IV | Skill Based Subject – Computer 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 | 20 | 55 | 75 | 3 |
| III | Core XV – Practical - Surveying & Interpretation of Aerial Photos and Satellite Images | 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 – Geography of Tourism | 3 | 3 | 20 | 55 | 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)

| 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 Southeast Asia |
| B | Geography of Japan |
| C | Medical Geography |
SEMESTER - I

CORE PAPER – I

FUNDAMENTALS OF GEOMORPHOLOGY - I

UNIT - I


UNIT - II

Origin of Continents and Oceans - Continental Drift Theory – Plate Tectonics – Sea Floor Spreading.

UNIT - III

Earthquakes and Volcanoes: Definition, causes and types- Distribution and effects.

UNIT - IV


UNIT - V


BOOKS FOR REFERENCE:

SEMESTER - I

CORE PAPER – II

GEOGRAPHY OF INDIA

UNIT - I

Location and Extent – Physical features – Major Physiographic Division – Drainage – Climate – Soil and Natural Vegetation.

UNIT - II


UNIT - III


UNIT - IV


UNIT - V


BOOKS FOR REFERENCE:

SEMESTER - II

CORE PAPER – IV

BASICS OF MAP MAKING - PRACTICAL

UNIT I

Map Scale: Methods of representation of scales – Statement and Representative Fraction. Graphical: Linear and Comparative Scales.

UNIT II


UNIT III

Representation of Relief: Contours: Different methods – Interpolation of contours - Cross- section of selected relief features.

UNIT IV

Profile Drawing: Serial, Super-imposed, Composite and Projected – Altimetric Frequency Curve.

UNIT V

Record – 20 Marks

BOOKS FOR REFERENCE:

SEMESTER - III

CORE PAPER –VI

POPULATION AND SETTLEMENT

UNIT - I


UNIT- II


UNIT - III


UNIT - IV

Settlement Geography: Site and Situation – Types - Urban Landuse Theories: Concentric - Sector – Multiple-Nuclei.

UNIT - V


BOOKS FOR REFERENCE:

SEMESTER - III

CORE PAPER – V

CLIMATOLOGY

UNIT I

Climatology: Meaning, scope and content – Atmosphere: Composition and Structure – Weather and Climate: Definition and its significances.

UNIT II


UNIT III


UNIT IV

Precipitation: Snow fall and Rain fall: Types and distribution of rainfall - Air masses: Types – Fronts and it types – Cyclone: Tropical and Temperate.

UNIT V


BOOKS FOR REFERENCE:

SEMESTER - III
ALLIED PAPER – III
ELEMENTS OF CARTOGRAPHY

UNIT I
Cartography: Definition, Scope and Content – Maps: types and uses – Branches of Cartography – Development of Cartography from Ancient to Recent Period.

UNIT II

UNIT III
Map data: Collection and Classification –Base map – Complication – Generalization.

UNIT IV

UNIT V

BOOKS FOR REFERENCE:

SEMESTER - IV

CORE PAPER – VII

OCEANOGRAPHY

UNIT I


UNIT II

Bottom relief features of Pacific, Atlantic and Indian Oceans.

UNIT III

Ocean Temperature and Salinity: Distribution and factors - Horizontal and Vertical – Factors affecting Temperature and Salinity Distribution.

UNIT IV


UNIT V

Oceans Deposits: types – Coral reefs: Formation and Types – Oceans resources and need for Conservation.

BOOKS FOR REFERENCE:

SEMESTER - IV

CORE PAPER – VIII

MAP INTERPRETATION AND REPRESENTATION OF CLIMATIC DATA – PRACTICAL

UNIT I

Survey of India Topographic Maps: Conventional Sings and Symbols – Cartographic Appreciation and Interpretation of SOI maps.

UNIT II

Indian Daily Weather Reports: Sings and Symbols – Station model - Interpretation of Weather Reports.

UNIT III


UNIT IV


UNIT V

Record – 20 Marks

BOOKS FOR REFERENCE:

SEMESTER - IV

ALLIED PAPER - IV

CARTOGRAPHY – PRACTICAL

UNIT I

Map Projections: types - Construction, Properties and uses of Conical Projection – One and Two standard Parallel – Bonne’s and Polyconic Projection.

Construction, properties and uses of Cylindrical Projection – Equi-distant and equal area Projection.

UNIT II

Properties and uses of Zenithal Projection – Equal area, Gnomonic, Stereographic and Orthographic (Polar cases only)

UNIT III


UNIT IV


UNIT V

Record – 20 Marks

BOOKS FOR REFERENCE:

SEMESTER - IV
Skill Based Subject - II
BASICS OF GIS AND GPS

UNIT I
GIS: Definition - Scope and Development - Components – GIS and Geography.

UNIT II
GIS Data: Spatial and Non–Spatial -Sources of Data – Data Structure: Raster and Vector.

UNIT III
Functions and Organizational Aspects: RDBMS – GIS software - Data Storage – Analysis – Buffering – Overlay.

UNIT IV
Applications of GIS - Agriculture – Environment – Urban and Disaster

UNIT V

BOOKS FOR REFERENCE:

SEMESTER - V

CORE PAPER – IX

GEOGRAPHY OF NATURAL REGIONS OF THE WORLD

UNIT I


UNIT II

Tropical Regions: Situation - Climate - Monsoon – Natural vegetation - Natural resources and Economic development.

UNIT III

Warm Temperate Regions: Mediterranean: China and steppe: Situation - Climate – Natural vegetation – Natural resources and Economic development.

UNIT IV

Cool Temperate Regions: West European, Prairie: Situation - Climate – Natural vegetation – Natural resources and Economic development.

UNIT V


BOOKS FOR REFERENCE:

SEMESTER - V
CORE PAPER – X
GEOGRAPHY OF TAMILNADU

UNIT –I
Location and extent - Physical divisions – Climate – Rivers - Soils and Natural vegetations.

UNIT –II

UNIT –III

UNIT –IV

UNIT – V

BOOKS FOR REFERENCE:

SEMESTER - V

CORE PAPER – X

GEOGRAPHY OF RESOURCES - I

UNIT –I

Geography of Resources: Definition, Scope and Content – Classifications – Characteristic and their distribution – Utilization and Conservation of Resources.

UNIT – II

Soil resources: Formation - Soil Profile –Classification and distribution - Fertility, Soil erosion and Soil Conservation.

UNIT – III


UNIT – IV

Animal Resources: Livestock - Cattle - Types – Pigs and Poultry – Growth and distribution - Economic Importance.

UNIT –V


BOOKS FOR REFERENCE:

SEMESTER - V  
CORE PAPER – XII  
REMOTE SENSING AND ITS APPLICATIONS IN GEOGRAPHY  

UNIT –I  

UNIT –II  
Aerial Remote Sensing: Air photo – Camera - Film – Scale - Stereoscopic vision – Elements of Air photo interpretation

UNIT –III  

UNIT –IV  

UNIT –V  

BOOKS FOR REFERENCE:
SEMESTER - VI

CORE PAPER – XIII

GEOGRAPHY OF RESOURCES -II

UNIT –I


UNIT – II


UNIT – III

Mineral and Power Resources: Types – Significances - Distribution and Production of Iron ore, Bauxite, Copper, Manganese, Tin and Mica – Coal, Petroleum, Natural Gas and Atomic power.

UNIT – IV

Industrial Resources: Locational factors - Distribution of Cotton Textile, Iron and Steel – Ship Building – Aircraft – Automobile – Cement and Chemical industries.

UNIT – V


BOOKS FOR REFERENCE:

SEMESTER - VI
CORE PAPER – XIV
ENVIRONMENTAL STUDIES AND MANAGEMENT

UNIT –I

UNIT – II
Ecosystem: Meaning – Types – Components – Functioning of Ecosystems – Food chain and Food web.

UNIT – III

UNIT – IV

UNIT –V
Environmental Impact Assessment: Meaning and Concept – Case studies of Sardar Sarovar Project and Tehri Dam - Role of Environmental movements in Protecting our Environment.

BOOKS FOR REFERENCE:

SEMESTER - VI

CORE PAPER – XV

SURVEY AND INTERPRETATION OF AERIAL PHOTOS AND SATELLITE IMAGES - PRACTICAL

UNIT –I

Survey: Chain: Open and Closed - Prismatic compass: Open and closed - Plane Table Surveying.

UNIT –II

Height Measurement and Levelling: Indian Clinometer, Abney level and Dumpy level – Level Differences and Height Measurement.

UNIT –III

Aerial Photos: Elements of Visual Interpretation - Marginal Information - Stereoscopic Vision Test - Interpretation of Aerial Photographs (Physical and Cultural)

UNIT –IV

Satellite Images: Marginal information - Interpretation of Satellite Images (Physical and Cultural).

UNIT V

Record – 20 Marks

BOOKS FOR REFERENCE:

SEMESTER - VI
Skilled Based Subject - IV
GEOGRAPHY OF TOURISM

UNIT I

Tourism: Definition – Types – History and Development – Economic importance of Tourism.

UNIT –II


UNIT –III

Tourism Management: Accommodation - Transport facility - Travel Agencies - Publicity and Marketing – Visa and Passport - Tourist Guides.

UNIT –IV

Tourism Organizations: International - WTO and PATA - Tourism Organizations in India: ITDC and TTDC – Role and Functions.

UNIT –V


REFERENCES:

ELECTIVE – II-A

POLITICAL GEOGRAPHY

UNIT –I


UNIT –II


UNIT –III

Boundaries and Frontiers: Definition – Classification: Genetic and Functional - Morphological Classification (Buffer Zone – Land locked Countries) – Border Disputes.

UNIT –IV


UNIT –V

Political Geography of India: Integration of Indian States: Integration of Sikkim – India’s Bilateral Relationship with Pakistan and Sri Lanka – SAARC Countries - India’s Foreign Policies.

REFERENCES:

8. Adhikari, Sudeepta (2008), Political Geography of India, Sharda Pustak Bhawan, Allahabad.
ELECTIVE - I-B

NATURAL DISASTERS AND MANAGEMENT

UNIT I

Disasters: Meaning and Classification – Concepts – Risk and Vulnerability – Disaster Zones of India.

UNIT II


UNIT III


UNIT IV

Human induced Disasters: Nuclear and Chemical – Health hazards - Forest fire - Global Warming – Deforestation and Groundwater Depletion.

UNIT V


REFERENCES:

ELECTIVE- I-A
URBAN GEOGRAPHY

UNIT –I


UNIT –II

Urban Morphology: Functional Classification of Towns - Urban Landuse – CBD and its characteristics - Primate City.

UNIT –III

Theories and Models: Classical: Burgess, Homer Hoyt, Harris and Ullman – Central Place Theory: Christaller and Losch – Rank Size Rule.

UNIT –IV


UNIT –V


BOOKS FOR REFERENCE:

ELECTIVE III - A

REGIONAL GEOGRAPHY OF SOUTH EAST ASIA

UNIT –I

South East Asia: Location and Extent – Physiographic Divisions - Climate – Soils and Natural Vegetation.

UNIT –II


UNIT –III


UNIT –IV


UNIT –V


BOOKS FOR REFERENCE:

2. George B Cressey Asia’s lands and People.
5. Duddy Stamp .L. India and Pakistan, Ceylon and Burma.
6. Duddy Stamp .L. A New Geography of India Burma & Ceylon