

**1<sup>st</sup> Year (Certificate Course)  
Semester-I  
Fundamentals of Geography and Major Contributions  
(Theoretical)**

Paper-GE-101C

Full Marks-100(Credit-4)

(Internal Assessment-40; End Sem.Exam.-60)

**Unit-1: Introduction to Geography**

Definition, Concept and Evolution of the word 'Geography', Nature and Scope of Geography; Divisions and Branches of Geography; Inter-relation of Geography with other Physical and Social Sciences; Introduction to Physical Geography (Nature & Scope); Introduction to Human Geography (Nature & Scope); Major Geographic Traditions (Earth Science, Man-Environment relationship, Area studies and Spatial Analysis).

**Unit-2: Contributors to Geography**

Classical Contribution to Geography (Greeks and Romans); Indian and Chinese Contribution to Geography; Medieval Contribution to Geography by Arabs; Age of Discovery, Voyages and Renaissance in Europe; Modern Contribution to Geography; European and American.

**Unit-3: Approaches, Dichotomy and Dualism in Geography**

Approaches to the study of Geography --- Regional and Systematic; Man-Environment Relationship; Determinism and Possibilism; Dichotomy and Dualism; Physical vs. Human, Qualitative vs. Quantitative, System Approach vs. System Analysis.

**Unit-4: Paradigm Shift and Trends in Geography**

Perspectives in Geography (Positivism, Humanism); Quantitative Revolution; Applied Geography and Geoinformatics; Recent Trends in Physical and Human Geography; Contemporary Trends in Indian and International Geography

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**1<sup>st</sup> Year (Certificate Course)  
Semester-I**

**Origin of the Earth  
(Theoretical)**

Paper-GE-102C

Full Marks-60(Credit-2)

(Internal Assessment-24; End Sem.Exam.-36)

**Unit-1: Concept, Hypotheses and Theories related to origin of the earth**

Basic Concept of Solar System and its Structure; Monistic Concept: Gaseous Hypothesis of Kant, The Nebular Hypothesis of Laplace; Dualistic Concept: Hoyle's Supernova Hypothesis; Otto Schmidt's Interstellar Hypothesis; Big Bang Theory; Relevance of Rotation, Revolution and Inclination of the Earth.

**Unit-2: Age of Earth, Origin and Evolution of Continents and Oceans**

Age of the Earth on the basis of radioactive elements; Geological History of the Earth; Interior Structure of the Earth; Origin of the Continents and Oceans: Tetrahedral Hypothesis; Continental Drift Theory of Alfred Wegener.

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**1<sup>st</sup> Year (Certificate Course)  
Semester-I  
(Practical)**

Paper-GE-101M (Practical)

Full Marks-40(Credit-1)  
(Internal Assessment-16;End Sem.Exam.-24)

Sl. No.	Practical	Marks
1.	Scale	10
2.	Introduction to Maps, Topographical Map introduction, Principle of Topographical Sheet numbering	06
4.	Laboratory Notebook and Viva-voce	5+3
<b>TOTAL</b>		<b>24</b>

**PRACTICAL: GE-101M**

1. Scale: Meaning, Definition and its Uses; Calculation of R.F.  
Graphical representation of Linear, Vernier and Diagonal Scale.
2. Introduction to maps: Definition, Elements, Types, Principle of map Design, Uses and Significance (from small to large scale), Map and Globe -- Similarities and Dissimilarities  
Topographical Map introduction (Concept of Contour, Latitude & Longitude, Identification of Physical and cultural features), Principle of Topographical Sheet numbering
3. Laboratory Notebook and Viva-voce

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**1<sup>st</sup> Year (Certificate Course)  
Semester-I**

**Contributions in  
Geography (Theoretical)**

**Paper-GE-101M**

**FullMarks-60 (Credit-3)**

**(Internal Assessment-24;End Sem.Exam.-36)**

**Unit-1: Introduction to Geography**

Definition, Concept and Evolution of the word 'Geography'; Divisions and Branches of Geography; Nature and Scope of Geography; Inter-relations of Geography with other Physical and Social Sciences; Major Geographic Traditions (Earth Science, Man-Environment relationship, Area Studies and Spatial Analysis).

**Unit-2: Contributors to Geography**

Classical Contribution to Geography (Greeks and Romans); Indian and Chinese Contribution to Geography; Medieval Contribution to Geography by Arabs; Age of Discovery, Voyages and Renaissance in Europe; Modern Contribution to Geography: European and American.

**Unit-3: Approaches, Dichotomy and Dualism in Geography**

Approaches to the study of Geography -- Regional and Systematic; Man-Environment Relationship: Determinism and Possibilism; Dichotomy and Dualism: Physical vs. Human, Qualitative vs. Quantitative, System Approach vs. System Analysis); Recent trends in Geography; Contemporary Indian Geography.

**Unit-4: Paradigm Shift and Trends in Geography**

Perspectives in Geography (Positivism, Humanism); Quantitative Revolution; Recent Trends in Physical and Human Geography; Contemporary Trends in Indian and International Geography

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**1<sup>st</sup> Year (Certificate Course)**  
**Semester-I**  
**(Practical)**

Paper-GE-102C

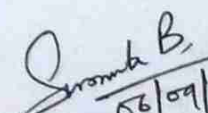
Full Marks-40(Credit- 2)

(Internal Assessment-16; End Sem.Exam.-24)

Sl. No.	Practical	Marks
1.	Scale	08
2.	Introduction to Maps	04
3.	Topographical Map introduction, Principle of Topo. sheet numbering	07
4.	Laboratory Notebook and Viva-voce	03+02
<b>TOTAL</b>		<b>24</b>

**PRACTICAL: GE-102C**

1. Scale: Meaning, Definition and Use ; R.F. of Scale  
Graphical representation of Linear, Comparative, Vernier and Diagonal Scale
2. Introduction to maps: Definition, Elements, Types and Classification, Principle of map design, Uses and Significance (from small to large scale), Map and Globe --- Similarities and Dissimilarities
3. Introduction to Topographical map ( Concept of Contour, Latitude Longitude, Identification of Physical and Cultural features), Principle of Topographical Sheet numbering
4. Laboratory Notebook and Viva-voce

  
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**1<sup>st</sup> Year (Certificate Course)**  
**Semester-II**  
**Geography of Asia and India**  
**(Theoretical)**

Paper-GE-103C

Full Marks-100(Credit- 4)

(Internal Assessment-40; End Sem.Exam.-60)

**Unit-1: India—Location & Physical**

Regional Setting and Regional Divisions; Physical Divisions and Drainage; Climate and Natural Vegetation; Soil types and Agricultural Regions

**Unit-2: India—Population and Resources**

Population composition (Races, Ethnic and Tribes); Population Density, Distribution and Growth; Minerals (Iron ore, Manganese), Energy Resources (Coal and Petroleum) and Industries (Iron and Steel, Cotton textile and Paper); Transport, Communication and Trade; Economy, Urbanization, Population Problems

**Unit-3: Asia—Regional Setting and Physical**

Asia in the context of the World (Location and Regional Setting); Physical and Regional Divisions; Major River Systems; Climate, Soil and Natural Vegetation

**Unit-4: Asia—Agriculture, Population and Resources**

Agriculture (Conditions of growth, Production and Distribution of Rice, Wheat, Jute and Tea); Distribution and Density of Population; Urbanization; Industry (Iron and steel, Electronics and automobile, Food processing industries of South-east and South Asia); Mineral and Energy Resources (Iron Ore, Coal, Petroleum in Middle-east); Regional Cooperation and Issues of South Asia and South-east Asian Countries

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**1<sup>st</sup> Year (Certificate Course)  
Semester-II  
Geomorphology  
(Theoretical)**

**Paper-GE-104C**

**Full Marks-60(Credit-2)**

**(Internal Assessment-24; End Sem. Exam-36)**

**Unit-1: Fundamentals of Geomorphology**

Nature and Scope of Geomorphology; Fundamental Concepts of W. D. Thornbury; Types of Rocks and associated landforms; Development of Drainage System on Umiclinal and Folded Structure; Mountain Building Theory (Kober and Holmes); Recent Trends in Geomorphology.

**Unit-2: Processes and Forms in Geomorphology**

Geomorphic agents, their processes and resultant landforms: Fluvial, Glacier, Wind, Groundwater and Sea waves; Weathering and Mass wasting (Meaning and Concept, Classification, Controlling factors, Geomorphic importance); Drainage Systems, Drainage Patterns (Definition, Classification); Slopes: Importance of Slope, Elements of Slope and Theories of Slope Evolution (W. M. Davis and W. Penck); Cycle of Erosion: Contribution of Davis; Interruption in Cycle of Erosion.

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**1<sup>st</sup> Year (Certificate Course)  
Semester-II  
(Practical)**

Paper-GE-104C

Full Marks-40(Credit- 2)

(Internal Assessment-16; End Sem.Exam.-24)

Sl. No.	Practical	Marks
1.	Cartograms (Using MS Excel)	09
2.	Topographical map interpretation (Plateau Region)	10
3.	Laboratory Notebook and Viva-voce	03+02
<b>TOTAL</b>		<b>24</b>

**PRACTICAL:GE-104C**

1. Cartograms using MS Excel  
Line Graph, Bar Graph, Pie Chart, Age-Sex pyramid, Scatter diagram with Regression line
2. Topographical map interpretation (Plateau Region):  
Broad Physiographic divisions and relief features  
Serial Profile, Superimposed Profile, Projected Profile and Composite Profile  
Morphometric analysis: Calculation of Relative relief, Dissection index, Average slope and Drainage density and their spatial distribution  
Drainage patterns  
Vegetation Map  
Settlement types and patterns  
Communication network Map  
Transact Chart
3. Laboratory Notebook and Viva-voce

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**1<sup>st</sup> Year (Certificate Course)  
Semester-II**

**Geography of India, North-East India and Tripura  
(Theoretical)**

**Paper-GE-102M**

**Full marks-60(Credit-3)**

**(Internal Assessment-24;End Sem.Exam.-36)**

**Unit-1: India—Location and Physical**

Regional Setting and Regional Divisions; Physical Divisions and Drainage; Climate and Natural Vegetation; Soil types and Agricultural Regions

**Unit-2: India—Population and Resources**

Population Composition (Race, Ethnic and Tribe); Population Density, Distribution and Growth; Minerals and Energy Resources (Iron Ore, Manganese, Coal and Petroleum) and Industries(Iron and Steel and Aluminium); Transport, Communication and Trade; Economy, Urbanization, Population Problems.

**Unit-3: North-East India**

Physical Divisions and Drainage; Climate and Natural Vegetation; Soils and Types of Agriculture Practices; Population Composition (Race, Ethnic and Tribe); Population Density, Distribution and Growth; Resources: Power and Minerals; Industries; Transport and Tourism

**Unit-4: Tripura**

General Geology and Physical Divisions; Physiography and Drainage; Climate and Natural Vegetation; Soils and Types of Agricultural Practices; Population Composition (Tribes and Communities); Resources, Minerals and Industries; Historical Sites and Tourism

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**1<sup>st</sup> Year (Certificate Course)**  
**Semester-II**  
**(Practical)**

Paper-GE-102M (Practical)

Full marks-40(Credit-1)

(Internal Assessment-16;End Sem.Exam.-24)

Sl. No.	Practical	Marks
1.	Interpretation of Topographical Maps (Plateau region)	10
2.	Cartograms (Using MS Excel)	06
3.	Laboratory Notebook and Viva -voce	05+3
<b>TOTAL</b>		<b>24</b>

**PRACTICAL: GE-102M**

1. Interpretation of Topographical Map (Plateau region):

Broad Physiographic division and relief features

Serial Profiles (Superimposed, Composite, Projected)

Morphometric analysis (Relative relief, Dissection index, Average slope map, Drainage density map)

Vegetation Map

Settlement types and patterns

Communication network Map

Transact Chart

2. Cartograms (Using MS Excel)

Line Graph, Bar Graph, Pie Chart

3. Laboratory Notebook and Viva-voce

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