

TDC SYLLABUS FOR GEOGRAPHY

[PASS COURSE—B.A. / B.Sc.]

COURSE STRUCTURE :

1st YEAR		2nd YEAR	
1st semester	2nd semester	3rd semester	4th semester
GEOG. 101 (Theory)	GEOG. 201 (Theory) GEOG. 202 (Pract)	GEOG. 301 (Theory)	GEOG. 401 (Theory) GEOG. 402 (Pract)

3rd YEAR	
5th semester	6th semester
GEOG. 501 (Theory)	GEOG. 601 (Theory) GEOG. 602 (Pract)

GEOG. 101. GEOMORPHOLOGY	Full Marks-35	Pass Marks-12
GEOG. 201. CLIMATOLOGY AND OCEANOGRAPHY	Full Marks-35	Pass Marks-12
GEOG-202. GENERAL CARTOGRAPHY-I (Practical)	Full Marks-30	Pass Marks-10
GEOG-301. REGIONAL GEOGRAPHY OF INDIA	Full Marks-35	Pass Marks-12
GEOG-401. REGIONAL GEOGRAPHY OF NORTH-EAST INDIA	Full Marks-35	Pass Marks-12
GEOG-402. GENERAL CARTOGRAPHY-II (Practical)	Full Marks-30	Pass Marks-10
GEOG-501. HUMAN GEOGRAPHY	Full Marks-35	Pass Marks-12
GEOG-601. ECONOMIC GEOGRAPHY	Full Marks-35	Pass Marks-12
GEOG-602. GENERAL CARTOGRAPHY-III (Practical)	Full Marks-30	Pass Marks-10

1st Semester
GEOP-101
GEOMORPHOLOGY

Time : 2 hours

Marks : 35

UNIT-I (14 Marks)

1. Nature and Scope of Geomorphology.
2. Internal Structure of the earth : Constitution and Seismological evidences
3. Earth movements : Diastrophism, Earth Quakes and Volcanism.

UNIT-II (21 Marks)

1. Continental Drift and Plate - Tectonics theory.
2. Geomorphic processes : Weathering and Mass-wasting.
3. Agents of Denudation : running water and wind.
4. Slope : its importance, development and classifications.
5. Drainage Systems : Types and patterns.

Suggested readings :

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|-----|--------------------------|---|------------------------------------|
| 1. | Strahler | : | Physical Geography |
| 2. | Strahler | : | Modern Physical Geography |
| 3. | Holmes, A | : | Principles of Physical Geography |
| 4. | Singh, S | : | Physical Geography |
| 5. | Dayal, P | : | A text book of Geomorphology |
| 6. | Thornbury, William D | : | Principles of Geomorphology |
| 7. | Wooldridge & Morgan | : | Principles of Geomorphology |
| 8. | Steers, J. A. | : | Unstable Earth |
| 9. | Das, G.A. & Kapoor, A.N. | : | Principles of Physical Geography |
| 10. | Mukherjee, P. E. | : | A Text Book of Geology |
| 11. | Bloom, A.L. | : | Geomorphology |
| 12. | Hussain, M | : | Fundamentals of Physical Geography |
| 13. | Ahmad, E. | : | Geomorphology |
| 14. | Sharma, V. K. | : | Geomorphology. |

**2nd Semester
GEOP-201
CLIMATOLOGY AND OCEANOGRAPHY**

Marks : 35

Time : 2 hours

UNIT-I (21 Marks)

1. Atmosphere : Composition and Structure.
2. Insolation and Temperature : Factors and global distribution.
3. Atmospheric pressure and wind : Factors affecting Horizontal and Vertical distribution of pressure.
4. Cyclone : Tropical and Extra-tropical ; Monsoons (with reference to India).
5. Climatic Classification : comparisons between Koeppen and Thornthwaite systems of classifications.
6. Air Mass : Origin, Classification and characteristics of Air Masses.

UNIT-II (14 Marks)

1. Geomorphology of the Ocean Floor, Ocean Bottom relief of the Atlantic, Pacific and Indian Oceans.
2. Distribution of Salinity and Temperature in oceans waters.
3. Movement of Ocean Waters : Currents, Tides and Waves.
4. Marine Deposits and Coral Reefs : its growth and types and theories (Darwin and Dana)

Suggested readings :

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|---------------------|---|--------------------------------|
| 1. Trewartha, G. T. | : | An Introduction to Climatology |
| 2. Critchfield | : | General Climatology |
| 3. Lal, D. S. | : | Climatology |
| 4. Das, P. K. | : | The Monsoons |
| 5. Sharma, R.C. | : | Oceanography for Geographers. |

**2nd Semester
GEOP-202
GENERAL CARTOGRAPHY (PRACTICAL)**

Marks : 35

Time : 3 hours

1. Representation of Contours and Profile :

i) Waterfall	ii) River meander with ox-bow lake	iii) River terraces
iv) Cliff	v) Water Divides	

Climate graphs – Climograph and Hythergraph.	6
Enlargement and reduction of maps ; Combination of maps in two different scales.	6
Surveying : Definition, types and methods of surveying ; Plane Table Surveying : Radiation and Intersection methods.	7
Practical Record Book and Viva-voce.	2+3=5

Suggested readings :

Singh, Dr. R.L.	:	Elements of Practical Geography
Singh, Dr. L.R.	:	Fundamentals of Practical Geography
Alvi, Z.	:	A Text Book of Practical Geography
Mahmood, A.	:	Statistical methods in Geography.

3rd Semester GEOP-301 REGIONAL GEOGRAPHY OF INDIA

Time : 2 hours

Marks : 35

UNIT-I (7 Marks)

Regional study of India based on Physiography, Drainage, Climate, Soil and Natural Vegetarian.

UNIT-II (14 Marks)

Agriculture : Salient features of Indian agriculture ; Types of Farming ; problems and prospects of Indian agriculture ; Green Revolution.

Mineral resources : Iron ore and Manganese (Metallic Energy); Limestone and Atomic minerals (Non-Metallic Energy).

Energy Resources : Coal, Petroleum and Hydel Power.

UNIT-III (14 Marks)

Manufacturing industries : Cotton and Jute (Textile Industry); Iron & Steel and Aluminium (Metallurgical Industry).

Population : Growth, distribution and density ; problems and prospects ; population explosion and migration.

Urbanization in India : Trends and problems.

Tourism in India with special reference to North-East India; Trends and potentialities.

Suggested readings :

1. Spate, O.H.K.	:	India and Pakistan
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| 2. | Singh, R.L. | : | India : A Regional Geography |
| 3. | Negi, B.S. | : | Geography of India |
| 4. | Sharma, R.C. | : | Economic and Commercial Geography of India |
| 5. | Bhatt, L.S. | : | Regional Planning |
| 6. | Bhattacharyya, N.N. | : | North-East India : A Systematic Geography |
| 7. | Nag, P. | : | Geography of India |
| 8. | Tirtha, R. | : | Geography of India |
| 9. | NEICSSR, Shillong | : | Shifting cultivation in North-East India, vol-I&II |
| 10. | Tirtha, R. | : | Geography of India |
| 11. | Roy, S. | : | Natural Disaster Management |
| 12. | Singh, G. | : | A Geography of India |
| 13. | Khular, D.R. | : | India : A comprehensive Geography |
| 14. | Wadia, D.N. | : | Geography of India. |

4th Semester
GEOP-401
GEOGRAPHY OF NORTH-EAST INDIA

Time : 2 hours

Marks : 35

UNIT-I (7 Marks)

1. Regional study of North-East India based on Physiography, Climate, Soil and Natural Vegetation.

UNIT-II (14 Marks)

2. Agriculture : Types of farming ; Distribution of major crops (Rice, Tea).
3. Jhum/ Shifting cultivation in North-East India : Problems and Prospects.
4. Natural resources : Land, forest, power, mineral.

UNIT-III (14 Marks)

5. Population : Growth, distribution and density ; urbanization and migration.
6. Means of Transport and Communication in North-East India : Problems and prospects.
7. Manufacturing industries : Forest based, oil based and textile based industries; causes of industrial backwardness.
8. Environmental problems in North-East India with special emphasis on Floods and Deforestation.

Suggested readings :

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|----|--------------|---|--|
| 1. | Negi, B.S. | : | Geography of India |
| 2. | Sharma, R.C. | : | Economic and Commercial Geography of India |

Bhattacharyya, N.N.	:	North-East India : A Systematic Geography
Taher, M & Ahmed	:	Geography of North-East India
Nag, P.	:	Geography of India
Tirtha, R.	:	Geography of India
NEICSSR, Shillong	:	Shifting cultivation in North-East India, vol-I&II
Tirtha, R.	:	Geography of India
Singh, G.	:	A Geography of India
Roy, P. & Mukherjee	:	Economic Geography.

4th Semester

GEO-402

GENERAL CARTOGRAPHY (Practical)

Time : 3 hours

Marks : 30

Representation of statistical data :

6

a) Distribution maps – Shade method and multiple dots method

b) Spheres and proportionate circles.

Cartograms :

6

a) Age-sex pyramid b) Block diagram (one-point perspective)

c) Traffic flow.

Map Projections :

6

Meaning – Classification and their general characteristics –

Construction of Map Projections :

a) Zenithal Equidistant and Zenithal Equal Area.

b) Gall's and Mercator's.

Prismatic compass surveying :

7

a) Open traverse

b) Close traverse

Practical Record Book and Viva-voce.

2+3=5

Suggested readings :

1. Singh, Dr. R.L. : Elements of Practical Geography.
2. Singh, Dr. L.R. : Fundamentals of Practical Geography.
3. Alvi, Z. : A Text Book of Practical Geography.

5th Semester
GEOP-501
HUMAN CARTOGRAPHY

Marks : 35

Time : 2 hours

UNIT-I (7 Marks)

1. Meaning, scope and branches of Human geography.
2. Approaches and concepts in Human geography.

UNIT-II (28 Marks)

1. Human Races : Classification and distribution.
2. Human culture : Definition, functions and cultural change.
3. Settlement : Types and functions.
4. Tourism in the world.

Suggested readings :

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|-------------------|---|---|
| 1. Hussain, M. | : | Human Geography. |
| 2. Leong, Goh Che | : | Human and Economic Geography. |
| 3. Negi, B.S. | : | Human Geography. |
| 4. Hartshorne | : | Perspective of the nature of Geography. |
| 5. Mandal, R.B. | : | Introduction to Rural Settlements. |

6th Semester
GEOP-601
ECONOMIC GEOGRAPHY

Marks : 35

Time : 2 hours

UNIT-I (14 Marks)

1. Meaning, scope and importance of Economic geography.
2. Agriculture : Factors affecting agriculture; agricultural systems of the world (Intensive, Extensive, Plantation, Mixed and Mediterranean).
3. World distribution of food grains (Rice, Jute and Rubber).

UNIT-II (21 Marks)

1. Mineral and Power resources : Coal, Petroleum and Water power; Occurrences and trade in Iron ore, Mica and Atomic minerals.

Industries : Distribution of industries with special reference to Iron and Steel, and Cotton Textile industries.

Transport and Communication : Airways, Water ways and Railways.

Suggested readings :

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|------------------------------|---|---|
| Leong, Goh Che | : | Human and Economic Geography. |
| Hartshorne | : | Perspective of the nature of Geography. |
| Hartshorn, T.A. | : | Economic Geography. |
| Guha, J.L. & Chattoraj, P.R. | : | Economic Geography. |
| Siddhartha, K. | : | Economic Geography. |
| Shafi | : | Agricultural Geography. |
| Hussain, M. | : | Systematic Agricultural Geography. |

6th Semester

GEOG-602

GENERAL CARTOGRAPHY (Practical)

Time : 3 hours

Marks : 30

1. Interpretation of the topographic Maps : (relief, drainage pattern, vegetation, human settlement, means of transport and communication and irrigation). 6
 - a) Part of a Plain area
 - b) Part of a Mountain area.
2. Methods of representation and analysis of relief and drainage : Simple, projected, composite and superimposed. 6
3. Statistical Methods : 6
 - a) Measures of Central Tendency.
 - b) Measures of Dispersion : (Mean deviation, Standard deviation, Correlation and Co-efficient of variation).
4. Surveying : 7
 - a) Dumpy's Level (Road profile)
 - b) Theodolite (Height determination)
5. Practical Record Book and Viva-voce. 2+3=5

Suggested readings :

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|--------------------|---|--------------------------------------|
| 1. Singh, Dr. R.L. | : | Elements of Practical Geography. |
| 2. Dr. L.R. Singh | : | Fundamentals of Practical Geography. |
| 3. Alvi, Z. | : | A Text Book of Practical Geography. |

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