Unit-1: Geomorphology

- Earth Crust, Rocks, Wagner’s Continental Drift Theory, Plate Tectonic Theory.
- Earthquakes, Volcanoes and Associated Land Forms.
- Concept of Gradation, Weathering and Mass Wasting.
- Drainage Patterns and Channel Patterns, Relation of Drainage Patterns with Structure and Topography.
- Davisian Cycle of Erosion: Fluvial and Arid

Unit-2: Oceanography

- Topography of Ocean Floor.
- Bottom Relief of the Pacific, Atlantic and Indian Ocean.
- Origin and Classification of Ocean Deposit.
- Determinants of Temporary and Salinity of Ocean Water.
- Ocean Currents of the Pacific, Atlantic and Indian Ocean.
- Ocean as a Storehouse of Resources.

Unit-3: Climatology

- Composition and Structure of the Atmosphere.
- Elements of Weather and Climate.
- Insolation, Heat Budget, Factors Controlling Temperature, Inversion of Temperature.
- Pressure Belts and Wind System.
- Indian Monsoon: Origin, Characteristics and Effects.
- Precipitation: Processes, Forms, Types of Rainfall.

Unit-4: Biogeography

- Components of Biosphere.
- Ecosystem: Concept, Importance and Types.
- Factors and Processes of Soil Formation, Soil Profile, Soil Erosion and Conservation.
- Factors of Plant Growth, World Distribution of Forests and Their Utility, Deforestation and Conservation of Forest.
- Concept and Importance of Biodiversity
- Concept and Classification of Biome.

**Unit-5: Environmental Geography**

- Concept of Environmental Degradation, Pollution and Pollutants.
- Different Types of Pollution: Air, Water, Land and Noise- Their Causes, Consequences and Mitigations.
- Causes and Effects of Ozone Depletion.
- Green House Effect and Climate Change.
- Concept of Hazards, Vulnerability, Risk And Disaster.
- Natural Hazards: Earthquake, Flood, Landslide, Riverbank Erosion, Tsunami, Cyclone-Their Causes Effects and Managements.
- Ecosystem (Principles and Components, Energy Flow, Food Chain, Food Web and Bio-Geochemical Cycles); Biomes (Concepts, Types and Ecological Adaptation); Environmental Degradation and Hazards, Management and Conservation; Meaning of Natural Environment; Man-Environment Relationship; Natural Regions and Environmental Adaptation of Human Life; Economy and Society.

**Unit-6: Economic Geography**

- Resources: Concept, Classification, Significance.
- Types of Fishing, Factors Controlling the Development of World Commercial Fishing Grounds, Conservation of Fishes.
- Lumbering in Temperature and Tropical Region.
- Mineral Resources: Iron Ore, Manganese, Copper and Mica.
- Mineral Resources of Tripura.
- Power Resources: Conventional (Coal, Petroleum, Natural Gas, Uranium and Thorium); Non-Conventional (Solar, Biogas, Wind, Tidal, Geothermal); Water as Source of Power, Conservation of Power Resources, Power Resources of Tripura.
- Agriculture: Shifting, Intensive Subsistence, Extensive Commercial, Plantation and Mixed-Farming.
- Concept of Green Revolution, White Revolution and Blue Revolution.

**Unit-7: Industrial Geography**

- Factors for Development of Industries.
- Forest-Based Industries: Paper-India and Canada. Rubber-Southeast Asia, Brazil and India.
- Mineral-Based Industries: Iron and Steel-USA, UK, Japan, China and India. Petro-Chemical-India and USA.
- Engineering and Automobiles- India and USA.
- International Trade: Causes, Principle And Importance.
- Function and Role of World Trade Organisation (WTO).
Unit-8: Population Geography
- Factors Effecting the Distribution and Density of Population; Trends in Population Growth, Demographic Transition Model; Present Status of India.
- Migration, Age-Sex Ratio; Determinants of Population Change.
- Types and Pattern of Rural Settlement.
- Classification of Urban Settlements.

Unit-9: Geography of India with special reference to Tripura
- Physiography and Drainage.
- Climate, Soil and Natural Vegetation.
- Agriculture: Characteristics and Problems.
- Different Industrial Regions of India: Mumbai-Pune; Ahmedabad-Surat; Hugly-Haldia; Durgapur-Asansol; Chotonagpur Industrial Belt and Industrial Electronic Area of Bangaluru.
- Problems and Prospect of Industrial Development of Tripura.
- Prospects of Tourism Development in Tripura.
- Transport System of Tripura.

Unit-10: Practical Geography
- Maps and Scale: Types of Maps, Chorocromatic and Cropleth Maps, Concept of Scale.
- Projection: Definition, Classification, Concept of Standard Parallel, Properties of Simple Conical Projection, Cylindrical Equal Area Projection and Stereographic Projection.
- Topographical Maps: Conventional Signs, Concept of Contour, Relief Features, Drainage Patterns, Settlement Patterns.
- Weather Maps: Meteorological Symbols, Gradient of Pressure, Wind Velocity and Direction, Sky Condition and Other Atmospheric Phenomena.
- Concept of Isotherm, Isobar, Isohyets, Range of Temperature and Relative Humidity.
- Statistics: Concept of Data, Primary and Secondary Data, Tabulation and Classification of Data, Frequency Distribution, Histogram, Polygon and Ogive.
- Measures of Central Tendency: Mean, Median and Mode.
- Measures of Dispersion: Quartile, Percentile and Decile.
- Necessity and Importance of Field Survey, Random Sampling, Questionnaire and Schedule.

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