GEOGRAPHY (GEGR)

Class - XI

Full Marks: 100

Theory: 70 and Practical: 30

THEORY

A.	**Physical Geography.**	40 Marks
B.	**Economic Geography.**	30 Marks

A. Physical Geography.

1. Geography as a Discipline.

- Branches of Geography.
- Future Scope of Branches of Geography.

2. Principles of Physical Geography.

- Origin of Earth (Explanation of a Classical Theory).
- Interior of the Earth.
- Concept and definition of Isostasy.
- Seafloor spreading, drifting of Continents, Plate Tectonic and Island Arc.

3. Geomorphic Processes and Resultant Landforms.

- Definition and types of Geomorphic Processes.
- Endogenic Processes Resultant Landforms.

i) Folding:

- Mechanism of Folding.
- Structural Elements of Fold.
- Types of Fold: * Symmetrical Fold, *Asymmetrical Fold, * Isoclinal Fold, * Monoclinal Fold, * Recumbent Fold, * Over thrust Fold, * Fan Fold.

ii) Faulting:

- Mechanism of Faulting.
- Structural Elements of Faulting.
- Types of Faulting: * Normal Fault, * Reverse Fault, * Thrust Fault, * Step Fault

iii) Volcanicity and Associated Landforms:

- Definition and concept of Volcanicity.
- Causes of Volcanicity.
- Types of Volcanicity.
- Associated Landforms of Volcanicity: Extrusive and Intrusive.
- Concept of Volcano.
- Different parts of Volcano.
- Different types of volcanoes according to frequency of eruption.
- Distribution of World Volcanoes with special reference to Pacific Ring of Fire.

iv) Earthquake:

- Concept and Definition of Earthquake.
- Types of Seismic Waves.
- Measuring Instruments and Scale.
- Isoseismal and Homoseismal Line.
- Causes of Earthquake (Examples from India).
- Effects of Earthquake (Examples from India).
- Distribution of Earthquake prone Zone.
- Seaquakes and Tsunamis.
- Prediction of Earthquake.

4. Hydrosphere.

i) Topography of Ocean floor:

- Major 4 divisions and others types of Ocean floor topography.
- Topography of Ocean Floor:
    - Pacific Ocean,
    - Atlantic Ocean
    - Indian Ocean.

ii) Ocean Deposits:

- Classification of Ocean Deposits according to origin and location.
- Importance of Marine Resources:
    - Mineral resources.
    - Food Resources.

- Power Resources (Tidal, Wave, Sea thermal)

iii) Temperature, Salinity and Density of Ocean Water:

Temperature:

- Importance of Temperature of Ocean Water.
- Process of Heating and Cooling of Ocean Water.
- Factors of Temperature Variation of Ocean Water.
- Horizontal and Vertical Distribution of Ocean Water Temperature.

Salinity:

- Concept and importance of Salinity.
- Causes of Salinity of Ocean Water.
- Distribution of Salinity of Ocean Water.

Density:

- Effects of Temperature and Salinity on Density of Ocean Water.

iv) Ocean Currents:

- Concept and Causes of Ocean Currents.
- Distribution of Ocean Currents in the Pacific Ocean.
- Distribution of Ocean Currents in the Atlantic Ocean.
- Distribution of Ocean Currents in the Indian Ocean.
- Importance of Ocean Currents.

5. Biosphere.

- Nature and Extent of Biosphere.
- Components of Biosphere.
- Concept of Ecosystem.
- Types of Ecosystem.
- Components of Ecosystem.
- Concept of Tropic Level (Food Pyramid).
- Food Web.
- Energy Flow (Energy Pyramid in Ecosystem).

B. Economic Geography.

1. Resource.

- Concept and Definition of Resource.
- Characteristics of Resource.

- Classification of Resource.
- Resource Creating Factors (Man, Nature, Culture)

2. Utilization of World Resources.

Biotic Resource:

i) Forest.

- Types of Forests with special emphasizes on Temperate Forest, Equatorial Forest, Mangrove Forest, Grassland.
- Forest Resources and their Conservation.

ii) Fishing.

- Concept of Fishing.
- Fishing Ground.
- Factors behind the development of Fishing Ground.
- Types of Fish.
- Methods of Fishing.
- Areas of Fishing with special reference to India, Japan and Bangladesh.
- Development of Ports and Markets depending upon Fishing.
- Fish Conservation.
- Recent Fisheries Policy of India.

iii) Land use Pattern.

- Land use Pattern of USA and Canada.
- Land use Pattern of China, Japan and Korea.
- Land use Pattern of Brazil, Chili and Argentina.
- Land use Pattern of Ukraine and Netherlands.
- Land use Pattern of South Africa.
- Land use Pattern of Australia, New Zealand and Tasmania.

iv) Water Resource: Irrigation and Water Preservation.

- Techniques of Irrigation.
- Use and Misuse of Water in Irrigation.
- Dangers of Over-watering.
- Conservation of Water Resources and Watershed Management.
- Irrigation of India, Pakistan and Egypt.
- Alternative Methods of Irrigation.

v) Mineral and Power Resources.

- Types of Mineral Resources.
- World Distribution of **Iron Ore, Copper, Manganese, Mica, Petroleum and Natural Gas, Coal, Uranium and Thorium**.
- Types of Power Resource: Conventional and Non-conventional.
- Types of Energy: Thermal, Hydroelectric and Nuclear Energy.
- World Distribution of – Hydroelectric: Canada and Scandinavian Countries.
  Thermal: India in World Respect.
  Nuclear: Main Leading Countries.
- Non-conventional Energy: Solar Energy, Tidal Energy, Sea Wave Energy, Geothermal Energy, Wind Energy, Biogas Energy, Waste-garbage recycling Energy and others.
- Conservation of Natural Resources – Need and Method.

vi) Map Works: Showing World Distribution of Resources.

Practical

30 marks

1) Maps & Scales

a) Draw a linear scale with given R.F. **(4 marks)**

b) One short answer type question from maps related portion. **(1 mark)**

2) Cartograms

a) Draw a cartograms with the help of given data. **(4 marks)**

b) One short answer type question from this chaper. **(1 mark)**

3) Weather Instruments

a) Observation of reading of any one out of two weather instruments and write down in a proper table. **(4 marks)**

b) One short answer type question from instrument oriented chaper **(1 mark)**

4) Interpretation of Weather map & Rainfall & Temperature Graph.

a) Interpretation of any item (pressure, wind, cloudiness. rainfall etc.)
Co-relation between any two items (pressure, wind, cloudiness, rainfall) **(4 marks)**

b) Identification of climate type from given rainfall - temperature graph. **(1 mark)**

OR

a) Draw a rainfall - temperature graph from given data and identify the climate type. **(4 marks)**

b) Identification of any one weather symbol **(1 mark)**

5) Field study & viva. (3+2=5 marks)

6) Laboratory Note Book. (3+2=5 marks)