SYLLABUS

GEOGRAPHY CLASS-XI

Time: 3 Hrs.

	Por company contracts manufactured sample property	70 Marks
	One Theory Paper	35 Marks
Part A	FUNDAMENTALS OF PHYSICAL GEOGRAPHY	30
	Unit-1 : Geography as a discipline	
	Unit-2 : The Earth	
	Unit-3: Landforms	
	Unit-4 : Climate	TILES DE DE SUE DE
	Unit-5: Water (Oceans)	trip (Spalling in 1)
	Unit-6 : Life on the Earth	5
	Map and Diagram	THE PARTY S
Part B	INDIA—PHYSICAL ENVIRONMENT	
	Unit-7: Introduction	Biom bene-
	Unit-8 : Physiography	30
	Unit-9: Climate, Vegetation and Soils	
	Unit-10: Natural hazards and Disasters	
	Map and Diagram	
D 4 C	PRACTICAL WORK	30 Marks
Part C		10
	Unit-1: Fundamentals of Maps	15
	Unit-2: Topographic and Weather Maps	5
	Practical Record Book and Viva	

OF PHYSICAL CEOCRAPHY	(89 Periods)
PART A: FUNDAMENTALS OF PHYSICAL GEOGRAPHY	(06 Periods)
 Unit 1: Geography as a Discipline Geography as an integrating discipline, as a science of spatial attributes. Branches of Geography; Physical Geography and Human Geography. 	
Scope and Career Options (Non-evaluative)	(11 Periods)
Unit 2: The Earth	

- Origin and evolution of the earth; Interior of the earth;
- Wegener's continental drift theory and plate tectonics;
- Earthquakes and volcanoes: causes, types and effects.

Unit 3: Landforms (20 Periods)

- Rocks: major types of rocks and their characteristics.
- Geomorphic processes—weathering, mass wasting, erosion and deposition, soil-formation.
- Landforms and their evolution. Brief erosional and depositional features.

Unit 4: Climate

(30 Periods)

- Atmosphere—composition and structure, elements of weather and climate.
- Insolation—angle of incidence and distribution; heat budget of the earth-heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature factors controlling temperature, distribution of temperature—horizontal and vertical, inversion of temperature.
- Pressure—pressure belts; winds-planetary, seasonal and local; air masses and fronts; tropical and extratropical cyclones.
- Precipitation—evaporation; condensation—dew, frost, fog, mist and cloud; rainfall—types and world distribution.
- Climate and Global Concerns.

Unit 5: Water (Oceans)

(10 Periods)

- Basics of Oceanography
- Oceans—distribution of temperature and salinity.
- Movements of ocean water-waves, tides and currents; submarine reliefs.
- Ocean resources and pollution.

Unit 6: Life on the Earth

(07 Periods)

 Biosphere—importance of plants and other organisms; biodiversity and conservation; ecosystem and ecological balance.

Map Work on identification of features based on 1 to 6 units on the outline/Physical/Political map of the world. (05 Periods)

PART B: INDIA—PHYSICAL ENVIRONMENT

(78 Periods)

Unit 7: Introduction

(04 Periods)

Location, space relations, India's place in the world. Unit 8: Physiography

(28 Periods)

- Structure and Relief, Physiographic Divisions.
- Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers.

Unit 9: Climate, Vegetation and Soils

(28 Periods)

- Weather and climate—spatial and temporal distribution of temperature, pressure winds and rainfall, Indian monsoon: mechanism, onset and withdrawal, variability of rainfalls-spatial and (aborts 1 all) temporal, use of weather charts.
 - Natural vegetation—forest types and distribution; wildlife; conservation; biosphere reserves.
 - · Soils-major types (ICAR's classification) and their distribution, soil degradation and conservation.

Unit 10: Hazards and Disasters: Causes, Consequences and Management Origin and evolution of the earth; Interior of the earth;

(14 Periods)

- · Floods, Cloud bursts
- Droughts: types and impact
- Earthquakes and Tsunami

- Cyclones: features and impact
- Landslides

Map Work of features based on above units for locating and labelling on the Outline/ Political/ Physical map of India. (04 Periods)

PART C: PRACTICAL WORK

(50 Periods)

Unit 1: Fundamentals of Maps

- Geo spatial data, Concept of Geographical data matrix; Point, line, area data.
- Maps—types; scales—types; construction of simple linear scale, measuring distance, finding direction and use of symbols.
- Map projection—Latitude, longitude and time, typology, construction and properties of projection: Conical with one standard parallel and Mercator's projection. (Only two projections)

Unit 2: Topographic and Weather Maps

(30 Periods)

- Study of topographic maps (1:50,000 or 1:25,000 Survey of India maps); contour cross section and identification of landforms—slopes, hills, valleys, waterfalls, cliffs; distribution of settlements.
- Aerial Photographs: Types & Geometry—vertical aerial photographs; difference between maps and aerial photographs; photo scale determination. Identification of physical and cultural features.
- Satellite imageries, stages in remote sensing data—acquisition, platform and sensors and data products (photographic and digital).
- Use of weather instruments: thermometer, wet and dry-bulb thermometer, barometer, wind vane, rain gauge.

Practical Record Book and Viva Voce

Viva to be based on Practical Unit I and II only.