COURSE STRUCTURE CLASS XI(2020-21)

One Theory Paper

70Marks 3Hours

Part	Units	No. of Periods	Marks
Α	Fundamentals of Physical Geography	87	35 Marks
	Unit-1: Geography as a discipline	06	
	Unit-2: The Earth	11	1
	Unit-3: Landforms	20	-
	Unit-4: Climate	30	30
	Unit-5: Water (Oceans)	10	
	Unit-6: Life on the Earth	07	
	Map and diagram	05	5
В	India-Physical Environment	78	35 Marks
	Unit-7: Introduction	04	
	Unit-8: Physiography	28	30
	Unit-9: Climate, vegetation and soil	28	
	Unit-10: Natural hazards and disasters	14	-
	Map and Diagram	04	5
	Total	165	70 Marks
С	Practical Work in Geography Part I	50	30 Marks
	Unit-1: Fundamentals of Maps	20	10 Marks
	Unit-2: Topographic and Weather Maps	30	15 Marks
	Practical Record Book and Viva		5 Marks

Part A:	Fundamentals of Physical Geography	87Periods
Unit 1:	Geography as a Discipline	06Periods
	 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)	
Unit 2:	The Earth	11Periods
	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
	Rocks: major types of rocks and their characteristics	Periods
	 Geomorphic processes: weathering; mass wasting; erosion and deposition; soil-formation 	
	 Landforms and their evolution- Brief erosional and depositional features 	
Unit 4:	Climate	30
	 Atmosphere- composition and structure; elements of weather and climate 	Periods
	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 extra tropical cyclones 	
	Precipitation-evaporation: condensation-dew. frost. fog.	

COURSE CONTENT

	mist and cloud; rainfall-types and world distribution	
	Climate and Global Concerns	
Unit 5:	Water (Oceans)	10
	Basics of Oceanography	Periods
	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
	 Biosphere - importance of plants and other organisms; biodiversity and conservation; ecosystem and ecological balance 	Periods
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	
	Location, space relations, India's place in the world	Periods
Unit 8:	Physiography	28
	Structure and Relief; Physiographic Divisions	Periods
	 Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers 	
Unit 9:	Climate, Vegetation and Soil	28
	 Weather and climate - spatial and temporal distribution of temperature, pressure winds and rainfall, Indian monsoon: mechanism, onset and withdrawal, variability of rainfalls: spatial and temporal; use of weather charts 	Periods
	 Natural vegetation-forest types and distribution; wild life; 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	14 Periods
	Floods, Cloudbursts	
	Droughts: types and impact	

	Earthquakes and Tsunami	
	Cyclones: features and impact	
	Landslides	
Map Work labeling on	04 Periods	
Part C:	Practical Work in Geography Part I	50 Periods
Unit 1:	Fundamentals of Maps	20
	 Geo spatial data, Concept of Geographical data matrix; Point, line, area data 	Periods
	 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
	 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, waterfall, cliffs; distribution of settlements 	Periods
	 Aerial Photographs: Types and 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.	