Book-Geography Practical Part I

Chapter No.	Chapter Name	Weightage
1	Introduction to Maps	3
2	Map Scale	4
3	Latitude Longitude and Time	4
4	Map Projections	4
5	Topographical Maps	4
6	Introduction to Remote Sensing	6
	Practical file and Viva	5
	Total	**30**

COURSE CONTENT – XI

Book- Fundamentals of Physical Geography

Unit 1: Geography as a Discipline	**Chapter 1 Geography as a Discipline** • Introduction to Geography as a discipline • Geography as an integrating discipline: Spatial and Temporal synthesis • Approaches to study Geography: Systematic and Regional • Branches of Geography: Physical Geography, Human Geography and Bio Geography • Physical Geography and its importance.
Unit 2: The Earth	**Chapter 2 The Origin and Evolution of The Earth** ● Origin and evolution of the earth ● Early theories: Origin of the Earth ● Modern Theories: Origin of the universe ● Formation of Stars and Planets ● Evolution of the Earth: Lithosphere, Atmosphere and Hydrosphere ● Origin of Life **Chapter 3 Interior of the Earth** ● Sources of Information about the Interior of the Earth (Direct and Indirect) ● Earthquakes: Earthquake Waves, Shadow zones, Types, Scales to measure earthquake intensity, effects, frequency of earthquake occurrences ● Structure of the Earth ● Volcanoes and Volcanic landforms

	Chapter 4 Distribution of Oceans and Continents ● Continental Drift Theory, and Evidence in support of Continental Drift and Force for Drift ● Post Drift Studies ● Ocean Floor Configuration ● Distribution of Earthquakes and Volcanoes ● Concept of Seafloor Spreading ● Plate Tectonics: Types of Plate boundaries, Rate and forces for the Plate Movement ● Movement of the Indian Plate
Unit 3: Landforms	**Chapter 5 Geomorphic processes** • Geomorphic processes: Exogenic and Endogenic • Endogenic Process: Diastrophism, Volcanism • Exogenic Processes Weathering, landslides. • Soil: Processes and factors of Soil Formation **Chapter 6 Landforms and their Evolution** ● **Running water:** Erosional and Depositional Landforms ● **Wind:** Erosional and Depositional Landforms
Unit 4: Climate	**Chapter 7 Composition and Structure of Atmosphere** • Atmosphere- composition and structure; elements of weather and climate **Chapter 8 Solar Radiation, Heat Balance and Temperature** • Solar radiation: Variability of Insolation. • Processes of Heating and Cooling of Atmosphere • Terrestrial Radiation • Heat budget of the earth • Temperature- Factors controlling temperature; Horizontal distribution of temperature; Inversion of temperature **Chapter 9 Atmospheric Circulation and Weather Systems** ● Atmospheric Pressure: Horizontal and Vertical Variation of Pressure ● Forces affecting velocity and direction of Wind ● General Circulation of the atmosphere: Pressure belts; Winds: Planetary, Seasonal and Local; Air masses and Fronts; Tropical and Extratropical cyclones; Thunderstorms and Tornadoes **Chapter 10 Water in the Atmosphere** • Humidity-Absolute and Relative humidity • Evaporation and condensation- • Different Forms of Condensation: dew, frost, fog, mist and cloud;

	• Precipitation • Types of Rainfall and world distribution of rainfall **Chapter 11 World Climate and Climate Change** **(To be tested through internal assessments in the form of project and presentation)**
Unit 5: Water (Oceans)	**Chapter 12 Water (Oceans)** • Hydrological Cycle • Major and Minor Relief Features of the Ocean Floor • Temperature and Salinity of Ocean Waters: Factors, Horizontal and Vertical distribution of temperature and Salinity **Chapter 13 Movements of Ocean Water** • Movements of ocean water- Waves, Tides and Currents.
Unit 6: Life on the Earth	**Chapter 14 Biodiversity and Conservation** **(To be tested through internal assessments in the form of project and presentation)**
Book- India- Physical Environment	
Unit 1: Introduction	**Chapter 1** India — Location, Size, Latitudinal and Longitudinal extent, Indian Standard time, India and its neighbours
Unit 2: Physiography	**Chapter 2 Structure and Physiography** • Physiographic Divisions: (1) The Northern and North-eastern Mountains (2) The Northern Plain (3) The Peninsular Plateau (4) The Indian Desert (5) The Coastal Plains (6) The Islands. **Chapter 3 Drainage System** • Drainage patterns • Concepts of River basin, Catchment Area, Watershed • Drainage and River systems of India: the Himalayan and the Peninsular • Extent of Usability of River Water- linking of rivers, problems in using river water and water pollution
Unit 3: Climate, Vegetation and Soil	**Chapter 4 Climate** • Weather and climate • Unity and diversity in the Monsoon Climate • Factors determining the climate of India • The Nature and characteristics on Indian Monsoon • The Rhythm of Seasons • Distribution of Rainfall

	● Monsoon and the Economic Life in India ● Global Warming **Chapter 5 Natural Vegetation** ● Natural vegetation - Introduction ● Forest types and distribution ● Conservation of forests ● Wildlife; conservation; biosphere reserves
Unit 4: Hazards and Disasters: Causes, Consequences and Management	**Chapter 6 Natural Hazards and Disasters** **(To be tested through internal assessment in the form of Projects and presentation)**

Book- Geography Practical Part I

Chapter 1 Introduction to Maps

- Essentials of map making
- History of map making
- Maps -types
- Uses of maps

Chapter 2 Map Scale

- Scales-methods and construction
- Conversion of scale

Chapter 3 Latitude, Longitude and Time

- Drawing of Parallels of latitude and Meridians of longitude
- Longitude and time
- International date line

Chapter 4 Map Projections

- Map projection- typology, construction and properties of projection: Conical with one standard parallel and Mercator's projection. (only two projections)

Chapter 5 Topographical Maps

- Study of topographic maps (1 : 50,000 or 1 : 25,000 Survey of India maps); Conventional Symbols, contour cross section and identification of landforms-slopes, hills, valleys, waterfall, cliffs; distribution of settlements

Chapter 6 Introduction to Remote Sensing

- Satellite imageries, stages in remote sensing data-acquisition, platform and sensors and data products, (photographic and digital)