

GEOGRAPHY (029)
CLASS XI (2017-18)

One Theory Paper

70 Marks
3 Hours

Part A	Fundamentals of Physical Geography	35 Marks
	Unit-1: Geography as a discipline	30
	Unit-2: The Earth	
	Unit-3: Landforms	
	Unit-4: Climate	
	Unit-5: Water (Oceans)	
	Unit-6: Life on the Earth	
	Map and diagram	
Part B	India-Physical Environment	35 Marks
	Unit-7: Introduction	30
	Unit-8: Physiography	
	Unit-9: Climate, vegetation and soil	
	Unit-10: Natural hazards and Disasters	
	Map and Diagram	5
Part C	Practical Work	30 Marks
	Unit-1: Fundamentals of Maps	10 Marks
	Unit-2: Topographic and Weather Maps	15 Marks
	Practical Record Book and Viva	5 Marks

Part A: Fundamentals of Physical Geography

87 Periods

Unit-1: Geography as a Discipline

04 Periods

- Geography as an integrating discipline, as a science of spatial attributes.
- Branches of Geography; Physical Geography and Human Geography.
- Scope and Career Options

Unit-2: The Earth

11 Periods

- 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.

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.
- World climates-classification Koeppen, Differences in parameter between koeppen & Thornthwaite, Global warming and climatic changes.
- 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 Soil **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 temporal; use of weather charts; Climatic types (Koeppen).
- 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 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 **20 Periods**

- 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, waterfall, cliffs; distribution of settlements.
- 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.

GEOGRAPHY (Code No. 029)
CLASS - XI (2017-18)

1. Theory - One Paper

Time: 3 hours
Marks: 70

Part-I	Fundamentals of Physical Geography	35
	Unit-1: Geography as a discipline	30
	Unit-2: The Earth	
	Unit -3: Landforms	
	Unit - 4: Climate	
	Unit - 5: Water (Oceans)	
	Unit - 6 : Life on the Earth	
	Map Work & Diagram	05
Part-II	India- Physical Environment	35
	Unit - 7 : Introduction	30
	Unit - 8 : Physiography	
	Unit - 9 : Climate, vegetation and soil	
	Unit -10 : Natural hazards and Disasters	
	Map Work & Diagram	05
	Total	70
<p>Value Based Question from any unit 1-6 (Part- I), 7-10 (Part-II) - 3 Marks Note: - One Value Based Question can be taken from any unit 1-6 (Part -I), 7-10 (Part-II). Accordingly the weightage of the lessons can be reduced as per the discretion of the teacher.</p>		
Part -III	Practical Work	30
	Unit -1 : Fundamentals of Maps	10
	Unit - 2 : Topographic and Weather Maps	15
	Practical Record Book and Viva	05

2. Weightage to Difficulty Level

Estimated Difficulty Level	Percentage
(i) Easy (E)	20%
(ii) Average (AV)	60%
(iii) Difficult (D)	20%

QUESTION PAPER DESIGN 2017-18								
GEOGRAPHY (Theory)			Code No. 029			CLASS-XI		
Time: 3 Hours			Max. Marks: 70					
S. No.	Typology of Questions	Learning Outcomes & Testing Skills	Short Answer (1 Mark)	Short Answer (3 Marks)	Long Answer I (5 Marks)	Map Skills based (5 Marks)	Marks	%
1	Remembering- (Knowledge based Simple recall questions, to know specific facts, terms, concepts, principles, or theories; Identify, define, or recite, information), Map skill based questions (Identification, location)	<ul style="list-style-type: none"> Reasoning Analytical Skills Critical thinking 	3	1	1	1 (identify location)	16	23%
2	Understanding- (Comprehension -to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information)		1	1	2	-	14	20%
3	Application (Use abstract information in concrete situation, to apply knowledge to new situations; Use given content to interpret a situation, provide an example, or solve a problem)		-	1	2	-	13	19%
4	High Order Thinking Skills (Analysis & Synthesis- Classify, compare, contrast, or differentiate between different pieces of information; Organize and/or integrate unique pieces of information from a variety of sources) (includes Map interpretation)		2	1	2	1 (Map interpretation)	20	28%
5	Evaluation- (Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values)		1	1+ 1(values based)	-	-	7	10%
Total			7x1 =7	6x3=18	7x5=35	2x5=10	70 (22) Practical 30	100%
Time Estimated			15 min.	60 min.	70 min.	20 min.	165+15 = 180 min	

Note:

- No Chapterwise weightage, care to be taken to cover chapters in both books.