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**CBSE CLASS XI  
GEOGRAPHY (029)**

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**One Theory Paper 70 Marks (3 Hour)**

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

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## **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 extra tropical 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)**

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- 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

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- 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 settlement.
- 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**

**1. Theory - One Paper (Time: 3 hours) (Marks: 70)**

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

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## 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)**

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**1. Typology of Questions : 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)

**Short Answer (1 Mark) : 3**

**Short Answer (3 Marks) : 1**

**Long Answer I (5 Marks) : 1**

**Map Skills based (5 Marks) : 1** (Identify location)

**marks : 16**

**% : 23%**

**2. Typology of Questions : Understanding-**(Comprehension-to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information)

**Short Answer (1 Mark) : 1**

**Short Answer (3 Marks) : 1**

**Long Answer I (5 Marks) : 2**

**Map Skills based (5 Marks) : 0**

**marks : 14**

**% : 20%**

**3. Typology of Questions : Application** (Use abstract information in concrete situation, to apply knowledge to new situations; Use given content to interpret a situation, provide an

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example, or solve a problem)

**Short Answer (1 Mark) : 0**

**Short Answer (3 Marks) : 1**

**Long Answer I (5 Marks) : 2**

**Map Skills based (5 Marks) : 0**

**marks : 13**

**% : 19%**

**4. Typology of Questions : 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)

**Short Answer (1 Mark) : 2**

**Short Answer (3 Marks) : 1**

**Long Answer I (5 Marks) : 2**

**Map Skills based (5 Marks) : 1** (Map Interpretation)

**marks : 20**

**% : 28%**

**5. Typology of Questions : Evaluation-** (Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values)

**Short Answer (1 Mark) : 1**

**Short Answer (3 Marks) : 1+1** (Value based)

**Long Answer I (5 Marks) : 0**

**Map Skills based (5 Marks) : 0**

**marks : 7**

**% : 10%**

**6. Total :**

**Short Answer (1 Mark) : 7 = 7**

**Short Answer (3 Marks) : 6 = 18**

**Long Answer I (5 Marks) : 7 = 35**

**Map Skills based (5 Marks) : 2 = 10**

**marks : 70 (22) Practical 30**

**% : 100%**

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**7. Time Estimated :**

**Short Answer (1 Mark) :** 15 min.

**Short Answer (3 Marks) :** 60 min.

**Long Answer I (5 Marks) :** 70 min.

**Map Skills based (5 Marks) :** 20 min.

**marks (%) :**  $165+15 = 180$  min.