

Geography

Class-XI (2020-21)

As the regular teaching-learning in schools, during the session 2020-21, has widely been affected due to the COVID-19 pandemic, the subject experts committee, after due consideration, has recommended to reduce the syllabus by 30% in the following manner:-

Part-A: Fundamentals of Physical Geography

Unit-2: The Earth

- Distribution of oceans and continents.

Unit-3: Landforms

- Landforms and their evolution.

Unit-4: Climate

- Pressure-pressure belts; winds-planetary, seasonal and local; air masses and fronts; tropical and extratropical cyclones.
- World climates-classification Koeppen, Differences in parameter between koeppen and Thornthwaite, Global warming and climatic changes.

- Climate and Global Concerns.

Unit-5: Water (Oceans)

- Basics of Oceanography.
- Oceans – distribution of temperature and salinity.
- Ocean resources and pollution.

Part-B: India- Physical Environment

Unit-8: Physiography

- Structure and Relief; Physiographic Divisions.

Unit-9: Climate, Vegetation and Soil

- Weather and climate – spatial and temporal distribution of temperature, pressure winds and rainfall, Indian monsoon: mechanism, onset and

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withdrawal, variability of rainfalls: spatial and temporal; use of weather charts; Climatic types (Koeppen).

Unit-10: Hazards and Disasters: Causes, Consequences and Management (complete unit)

Part-C: Practical Work

Unit-1: Fundamentals of Maps

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

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Geography (029)

Class-XI (2020-21)

Part A Fundamentals of Physical Geography 35 Marks

Unit-1: Geography as a discipline

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Unit-2: The Earth

Unit-3: Landforms

Unit-4: Climate

Unit-5: Water (Oceans)

Unit-6: Life on the Earth

Map and diagram 5

Part B India- Physical Environment 35 Marks

Unit-7: Introduction

Unit-8: Physiography 30

Unit-9: Climate, vegetation and soil

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

Unit-1: Geography as a Discipline

- Geography as an integrating discipline, as a science of spatial attributes.
- Branches of Geography: Physical Geography.

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

- Rocks: major types of rocks and their characteristics.
- Geomorphic processes: weathering; mass wasting; erosion and deposition; soil-formation.

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Unit-4: Climate

- 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.
- Precipitation-evaporation; condensation-dew, frost, fog, mist and cloud; rainfall-types and world distribution.

Unit-5: Water (Oceans)

- Movements of ocean water-waves, tides and currents; submarine reliefs.

Unit-6: Life on the Earth

- 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.

Part- B: India- Physical Environment

Unit-7: Introduction

- Location, space relations, India's place in the world.

Unit-8: Physiography

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

Unit-9: Climate, Vegetation and Soil

- Natural vegetation-forest types and distribution; wild life; conservation; biosphere reserves.
- Soils - major types (ICAR's classification) and their distribution, soil degradation and conservation.

Map Work of features based on above units for locating and labelling on the outline Political/Physical map of India.

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Part-C: Practical Work

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.

Unit-2: Topographic and Weather Maps

- 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.