Rajasthan Board Geography Syllabus for Class 11

Part A : Fundamentals of Physical Geography

Geography as an integrating discipline, as a science of spatial attributes;

Branches of geography; importance of physical geography.

Unit 1: Geography as a discipline.	
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.
Unit 3: Landforms.	Rocks; major types of rocks and their characteristics; Landforms and their evolution. Geomorphic processes; weathering, mass wasting, erosion and deposition; soil formation.
Unit 4: Climate	Atmosphere – composition and structure; elements of weather and climate. Isolation-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), greenhouse effect, global warming and climatic changes.
Unit 5: Water (Oceans).	Hydrological Cycle. Oceans – distribution of temperature and salinity ; 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.
Unit 7: Map work on identification of features based on the above units. on the outline political map of the world.	

Part II: India – Physical Environment

Unit 8: Introduction.	Location – space relations and India's place in the world.
Unit 9: Physio-graphic	• Structure and Relief; • Drainage systems: concept of watershed; the Himalayan and the Peninsular. • Physio-graphic divisions.
Unit 10 : Climate, Vegetation and Soil.	• 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; 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 11: Natural Hazards and Disasters: Causes, Consequences and. Management (One case study to be introduced for each topic).	• Floods and droughts. • Earthquakes and Tsunami. • Cyclones. • Landslides.
Unit 12 : Map Work of features based on above units for locating and labeling on the outline Political map of India.	

C. Practical Work

Unit 1: Fundamentals of Maps.	• Maps- Types; scales-types; construction of simple linear scale, measuring distance; finding direction and use of symbols.

	• Latitude, longitude and time. • Map projection – typology, construction and properties of projection : Conical with one standard parallel and Mercator's projection.
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 land form – slopes, hills, valleys waterfall, cliffs; distribution of settlements. • Aerial Photographs: Types & Geometry – vertical aerial photographs; difference between maps & aerial photographs; photo scale determination. • Satellite imageries, stages in remote sensing data acquisition, platform & sensors and data products, (photographic & digital). • Identification of physical & cultural features from aerial photographs & satellite imageries. • Use of weather instruments: thermometer, wet and dry-build thermometer, barometer, wind vane, rain gauge. • Use of weather charts: describing pressure, win and rainfall distribution.
Unit 3: Practical Record-Book and Viva-voce.	

Prescribed Books:

1. Fundamentals of Physical Geography : NCERT's Book Published under Copyright.

2. India Physical Environment : NCERT's Book Published under Copyright.

3. Practical Work in Geography : NCERT's Book Published under Copyright.