

Syllabus for M.A./M.Sc. Entrance Test, 2020-21

Department of Geography Faculty of Science Aligarh Muslim University Aligarh – 202 002

Constitution of earth's interior; Isostasy; Continental Drift and Plate Tectonic Theory. Earth's Movement; Orogenetic and Epirogenetic. Earthquakes and Volcanoes. Weathering, Mass Wasting, Concept of Cycle of Erosion by Davis and Penck. The Erosional and Depositional Features: Fluvial, Aeolian, Coastal, Glacial and Karst Topography. Rocks: Types and Characteristics. Elements of Weather and Climate. Composition and Structure of Atmosphere. Insolation, Heat Budget. Horizontal and Vertical distribution of Temperature and Pressure. Inversion of Temperature. Atmospheric Circulation and Winds: Planetary, Periodic and Local winds. Adiabatic Processes, Stability and Instability. Humidity and forms of Condensation; Precipitation and types of Rainfall. Origin of the Monsoon and its relation with Jet Streams. Air Masses and Fronts; concepts, classification and properties. Tropical and Temperate Cyclones (Polar Front Theory); Anti-Cyclone. Basis of Koppen's Classification; types and characteristics. Ocean Bottom Topography. Ocean Currents and Waves. Ocean Salinity and Temperature. Ocean deposits and marine resources. Coral Reefs.

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