CSIR UGC NET Earth, Atmospheric, Ocean & Planetary Sciences

Earth, Solar System and Environmental Processes

• Earth and Solar System formation theories and planetary evolution.

• Geological time scale and major events in Earth history.

• Internal structure, gravity field, magnetic field and thermal characteristics.

• Minerals, rocks and natural resources found across different regions.

• Weathering, erosion, transportation and deposition processes.

• Soil formation, sediment development and landscape evolution.

• Earthquakes, folds, faults and tectonic plate interactions.

• Ocean circulation, tides, currents and marine productivity.

• Atmospheric structure, monsoon systems and climate variability.

• Global warming, ozone depletion and environmental conservation.

These topics provide a broad understanding of Earth systems and their interaction with the atmosphere, oceans and biosphere. Students gain knowledge of natural processes, environmental changes and planetary evolution that are important for competitive examinations and research studies. • Earth and Solar System formation theories and planetary evolution.

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Geology, Mineralogy and Earth Materials

• Mineral identification, crystal systems and structural properties.

• Petrology and classification of igneous, sedimentary and metamorphic rocks.

• Magma generation, crystallization and volcanic activity.

• Structural geology, deformation mechanisms and rock behaviour.

• Fossils, paleontology and reconstruction of ancient environments.

• Sedimentology, stratigraphy and basin analysis techniques.

• Marine geology and paleoceanographic interpretations.

• Geochemical cycles and elemental distribution in Earth systems.

• Economic geology, mineral deposits and exploration methods.

• Precambrian evolution and Quaternary geological records.

A strong understanding of geology helps candidates analyse Earth materials, geological structures and natural resources. These concepts are widely applied in exploration, environmental studies and geoscience research. • Mineral identification, crystal systems and structural properties.

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