

## **Earth Sciences**

### **MDC-1 Understanding Physical Formations of the Earth**

#### **UNIT. I Origin of the Earth**

Views on origin and age of the earth;

Components of the earth system and the characteristics of the Lithosphere from the perspective of geological formations; *Geological time scale*

#### **UNIT. II Internal structure of the earth**

General constitution of the earth; Layers of the earth and their composition and characteristics: Crust, mantle, outer core and inner core

#### **UNIT. III Rocks and minerals**

Definition of rock and mineral; Mineral: Properties and types; Rock: Classification and types

#### **UNIT. IV Landform dynamics on the earth**

Landform and its classification;

Geomorphic forces, associated processes and landform development:

Endogenetic and exogenetic; Folding and faulting

Erosion, mass wasting and landslide

Earthquake and volcanic eruption-Causes, consequences and distribution

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## **Earth Sciences**

### **MDC-2**

#### **MDC-2: Understanding the Changing Environment**

##### **Unit-I** Environment as a system

Meaning of environment; Components of earth's environment system and their characteristics and interrelationship: Lithosphere, Hydrosphere, Atmosphere and Biosphere; Ecosystem, its components and functioning; Concept of balanced environment

##### **Unit II** Changing man and environment relationship

Impact of natural environment on man and his activities (Agriculture, food, dress, house, power development, human adjustment in different environments); Population growth and environmental changes; Impact of man on natural environment (Deforestation, soil erosion, soil degradation, depletion of mineral resources, air and water pollution)

##### **Unit-III** Environmental changes and associated environmental problems

Global environmental changes: Global warming, Ozone layer depletion, Climate change

Environmental problems: Sea level change; Extreme weather events; Land, air and water pollution; Desertification; Deforestation, biodiversity loss and man-animal conflicts

##### **Unit-IV** Environmental Management

Meaning of environmental management; Conservation of natural environment and its resources; Management of environmental problems; Concept of sustainable development

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## MDC (III SEMESTER 2023)

### Earth Sciences

#### MDC-3

#### MDC-3: Land and People of Assam

##### Unit-I

Locational significance of Assam; Assam as an administrative division - Pre and Post-Independence Changes; Present administrative divisions

##### Unit II

Physical Characteristics (Relief, drainage, climate and vegetation) and associated problems (River-bank erosion, landslides and floods)

##### Unit III

Natural resources (Forests, wildlife and biodiversity, mineral resources)

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