2023

B.A./B.Sc.

First Semester

CORE - 1

GEOLOGY

Course Code: GLC 1.11 (Earth System Science)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT_I

Explain the different hypothesis for the origin of the earth.
 Write notes on the following:
 7×2=14

(a) Earth's magnetic field

(b) Terrestrial and jovian planets

UNIT-II

3. Define volcanoes. Discuss about its types and products.

 $7 \times 2 = 14$

14

4. Write a note on the following:

(a) Mid oceanic ridges

(b) Island arcs

UNIT-III

5. Explain with a neat schematic sketch the earth's heat budget.

6. Write notes on *any two* of the following:

 $7 \times 2 = 14$

14

- (a) Coriolis effect
- (b) Concept of eustasy
- (c) Greenhouse effect

UNIT-IV

14

7. Discuss in detail the major geomorphic divisions of India.

8.	Write notes on the following: (a) Radiometric dating of rocks(b) Laws of superposition and faunal succession	7×2=14
UNIT-V		
9.	Explain the distribution of elements in the solar system and or	n the earth. 14
10.	Write notes on the following: (a) Chemical differentiation and composition of the Earth (b) Isotopic fractionation	7×2=14