

Total No. of Printed Pages—4

5 SEM TDC GEOH (CBCS) C 12

2 0 2 1

(Held in January/February, 2022)

GEOLOGY

(Core)

Paper : C-12

(**Geomorphology**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—1

(**Introduction to Geomorphology**)

(Marks : 7)

1. Define any *three* of the following : 1×3=3

(a) Neptunism

(b) Hydrolysis

(2)

(c) Isostasy

(d) Mass Movement

2. What are the differences between Endogenic and Exogenic processes? 4

UNIT—2

(Understanding Earth's Physiography)

(Marks : 7)

3. Write short notes on any *two* of the following : $2 \times 2 = 4$

(a) Hypsometric Curve

(b) Geoid

(c) Orogenesis

4. Write briefly on the features found in ocean basin. 3

Or

Give a short overview on Himalayan Mountain Range.

(3)

UNIT—3

(Geomorphic Processes)

(Marks : 21)

5. Fill up the blanks : 1×5=5

(a) Formation of hematite from iron pyrite is an example of _____ chemical weathering.

(b) _____ is the soil layer exhibits eluviation.

(c) _____ is the sudden collapse of pivot rock formation.

(d) A crevasse that separates a glacier from bedrock at upper slope is called _____.

(e) An isthmus that connects an island with mainland is called _____.

6. Describe the geomorphic features associated with fluvial environment. 8

Or

What is soil? Write about different horizons of a soil profile. Give a classification of soil types. 1+3+4=8

7. Explain the scheme of categorization of mass movement processes. 8

(4)

UNIT—4

(**Tectonics and Geomorphology**)

(*Marks : 10*)

8. Write short notes on any *two* of the following : 3×2=6
- (a) Sea level change
 - (b) Features associated with divergent plate boundaries
 - (c) Rate of uplift and denudation
9. Write briefly on the role of plate tectonics in evolution of different landforms. 4

UNIT—5

(**Indian Geomorphology**)

(*Marks : 8*)

10. Write briefly on any *two* of the following : 4×2=8
- (a) Indo-Gangetic-Brahmaputra Plain
 - (b) Peninsular India
 - (c) Coastal Areas of Indian Subcontinent
