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3 (Sem-5/CBCS) GLG HC 2

2022

GEOLOGY

(Honours)

Paper : GLG-HC-5026

(Geomorphology)

Full Marks : 60

Time : Three hours

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

1. Answer the following as directed : $1 \times 7 = 7$

- (i) Epirogenic landforms are result of upward and downward movement.

(State True **or** False)

- (ii) Yardang is a type of Aeolian landform.

(State True **or** False)

Contd.

(iii) Exfoliation is the result of _____ weathering.
(Fill in the blank)

(iv) Lifespan of mesoscale landform is

- (a) 10 years
- (b) 100 years
- (c) 1000 years
- (d) 10 million years

(Choose the correct option)

(v) What is the maximum age of an oceanic crust as per Wilson cycle ?

(vi) What do you mean by blockfield landforms ?

(vii) Meander and slipoff slopes are the characteristic feature of which of the following ?

- (a) Youth
- (b) Mature
- (c) Old
- (d) None of the above

(Choose the correct answer)

(viii) Compression is associated with which of the following processes ?

- (a) Orogenic processes
- (b) Epirogenic processes
- (c) Sudden movements
- (d) None of the above

(ix) Major mountains are ____ of landforms.

- (a) megascale
- (b) mesoscale
- (c) microscale
- (d) macroscale

(Fill in the blank using the given choices)

(x) Where are flute marks found ?

(xi) Caldera is a type of volcanic landform.

(State True or False)

- (xii) Estuary is a type of fluvial landform.
(State True **or** False)

2. Answer the following questions : **(any four)**

$$2 \times 4 = 8$$

- (a) Define hypsometry.
- (b) What do you mean by orogenic process?
- (c) What do you mean by denudation process?
- (d) Define extraterrestrial landforms with example.
- (e) How are crevasses formed?
- (f) Write a note on moraine.
- (g) Write the examples of endogenic landforms.
- (h) Define geoid.

3. Answer the following questions : **(any three)**

$$5 \times 3 = 15$$

- (a) Write a note on topography.
- (b) Discuss the exogenic processes.
- (c) Write a note on weathering and associated landform.
- (d) Give a brief account on Indian geomorphology.
- (e) Explain the coastal geomorphic processes. Give suitable examples of coastal landforms.
- (f) What do you mean by mass wasting? Write a note on the processes related to mass wasting.
- (g) How do the exogenic and endogenic processes interact?
- (h) Define eustasy. Explain the factors which cause changes in sea level.

4. Answer the following questions : **(any three)**

10×3=30

(a) Give a detailed account on the major morphological features and divergent plate boundaries with suitable diagram.

(b) Discuss Wilson cycle and its role in landform development with suitable diagram.

(c) Give a detailed account on fluvial processes and landforms.

(d) Write a note on landforms related to igneous activity.

(e) Discuss the geomorphic processes with a flow chart and their interactions.

(f) Write short notes on :

(i) Aeolian landforms

(ii) Weathering

(g) Give a detailed account on endogenic and exogenic processes.

(h) Discuss on orogenic processes with reference to suitable example.
