

Total number of printed pages-7

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)

2×4=8

~~(a)~~ Define hypsometry.

(b) What do you mean by orogenic process? *is the result of collision between two landmasses.*

(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)*

5×3=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.
-