

3 (Sem-4) GGY M 1

2 0 1 8

GEOGRAPHY

(Major)

Paper : 4.1

(Forms and Processes in Geomorphology)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Choose and write the correct answer : $1 \times 7 = 7$

(a) Which of the following is not a geomorphic agent?

(i) Wind

(ii) Dust-laden wind

(iii) Sand particle

(iv) Sea wave

(b) Which of the following is not a third-order landform?

- (i) Delta
- (ii) Floodplain
- (iii) Natural levee
- (iv) Plateau

(c) In which part of river course is the alluvial fan developed?

- (i) Mountainous part
- (ii) Foothills part
- (iii) Piedmont zone part
- (iv) Deltaic part

(d) Which of the following is not a geomorphic hazard?

- (i) Flood
- (ii) Riverbank erosion
- (iii) Stream erosion
- (iv) Landslide

(e) A long profile of a river is constructed in relation to

- (i) distance from source and height of places
- (ii) distance from confluence and height of places
- (iii) distance from foothills and height of places
- (iv) distance from piedmont zone and height of places

(f) Which of the following is not a channel pattern?

- (i) Straight
- (ii) Meandering
- (iii) Alluvial
- (iv) Braided

(g) Which of the following is not a weathering process?

- (i) Exfoliation
- (ii) Joint-block disintegration
- (iii) Landslide
- (iv) Granular disintegration

2. Answer the following in brief : 2×4=8

- (a) What is geomorphic agent?
- (b) Why does the river channel in the lower course tend to be wider than in the upper course?
- (c) Why is chemical weathering mostly dominated in tropical humid region?
- (d) State the difference between hazard and disaster.

3. Write short notes on any three of the following : 5×3=15

- (a) Endogenic processes
- (b) Catchment area

(4)

- (c) Mass wasting
- (d) Processes of natural levee formation
- (e) Relationship between drainage pattern and underlying rock structure

4. Answer the following questions : $10 \times 3 = 30$

- (a) Explain the processes of development of faulted landforms. 10

Or

Discuss the management strategies to be adopted in mitigating flood hazard. 10

- (b) How does piedmont zone develop? Mention the characteristics of piedmont zone. $6 + 4 = 10$

Or

Differentiate between alluvial plain and floodplain, and mention their characteristics. $4 + 3 + 3 = 10$

- (c) What is meant by fluvio-geomorphic agent? Discuss river as a fluvio-geomorphic agent in relation to development of landforms. $2 + 8 = 10$

Or

What is long profile of a river? Mention its major characteristics. $4 + 6 = 10$

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