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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 the correct answer : 1×7=7

(a) Which of the following is not an exogenic process?

- (i) Weathering
- (ii) Nappe formation
- (iii) Mass wasting
- (iv) Erosion

- (b) The younger alluvial plain of the northern Brahmaputra valley is located between
- piedmont zone and older alluvial surfaces
 - piedmont zone and floodplain zone
 - piedmont zone and foothills zone
 - foothills zone and floodplain zone
- (c) Chemical weathering processes are mostly dominant in
- semi-arid region
 - arid region
 - tropical humid region
 - Mediterranean region
- (d) The Tapti river valley is a
- synclinal valley
 - rift valley
 - strike valley
 - fault-line valley
- (e) In which part of river course the natural levee develops?
- Hilly part
 - Foothills part
 - Piedmont zone
 - Floodplain zone

- (f) Watershed separates two
- hill ranges
 - river systems
 - different order of streams
 - river channels
- (g) Loktak lake in Manipur is formed by
- tectonic causes
 - erosional processes
 - depositional processes
 - anthropogenic activity
2. Answer the following in brief : 2×4=8
- What do you mean by erosion?
 - What do you mean by diastrophic force?
 - Why does the river channel in the lower course tend to be wider than in the upper course?
 - State the difference between hazard and disaster.
3. Write short notes on any *three* of the following : 5×3=15
- Mass wasting
 - Landslide as a geomorphic hazard
 - Floodplain
 - River basin
 - Processes of oxbow lake formation

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

- (a) Define the term 'channel pattern' and present a classification of river channels. Mention the characteristics of each of the channel patterns. $2+2+6=10$

Or

What is drainage pattern? Describe different drainage patterns. $2+8=10$

- (b) Define weathering. Describe different types of physical weathering processes. $2+8=10$

Or

Describe the erosional landforms produced by river. 10

- (c) Discuss the effects of flood in the Brahmaputra valley. 10

Or

What is meant by geomorphic hazard management? Discuss the management strategies required to be adopted in mitigating flood hazard. $3+7=10$
