

2019

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 : 1×7=7

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

(i) Cyclone

(ii) Dust-laden wind

(iii) Blizzard

(iv) Land

(b) Alluviation is the process of formation of

(i) peneplain

(ii) pediplain

(iii) alluvial plain

(iv) pediment

- (c) Which of the following is not an example of exogenic process?
- (i) Volcanic eruption
 - (ii) Thunderstorm
 - (iii) Jet stream
 - (iv) Running water
- (d) A cross profile of a river is constructed in relation to
- (i) distance from the source of the river and height of places
 - (ii) distance from one bank of the channel to other bank and height of the places
 - (iii) distance from foothills and height of the places
 - (iv) distances from thalweg to both banks and height of the places
- (e) Which of the following is a geomorphic hazard?
- (i) Ozone depletion
 - (ii) Exfoliation
 - (iii) Flood
 - (iv) Running water

- (f) Which of the following is not a channel pattern?
- (i) Straight channel
 - (ii) Alluvial channel
 - (iii) Meandering channel
 - (iv) Braided channel
- (g) Which of the following is not a drainage pattern?
- (i) Trellis pattern
 - (ii) Meandering pattern
 - (iii) Centripetal pattern
 - (iv) Centrifugal pattern

2. Answer the following questions in brief : $2 \times 4 = 8$

- (a) What do you mean by channel pattern?
- (b) What is natural levee?
- (c) State the difference between folded and faulted structure.
- (d) Define weathering.

3. Write short notes on any *three* of the following : $5 \times 3 = 15$

- (a) Concept of drainage basin
- (b) Chemical weathering

- (c) Methods of stream ordering
- (d) Characteristics of long profile of a river
- (e) River as a fluvio-geomorphic agent

4. Answer the following questions : 10×3=30

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

Or

What is mass wasting? Explain various types of mass wasting. 3+7=10

- (b) Explain how a channel changes with time. 10

Or

What is a river? Explain how a river originates on the earth's surface. 2+8=10

- (c) Differentiate between alluvial plain and floodplain. Mention four characteristics of each of them. 6+4=10

Or

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