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3 (Sem-1/CBCS) GGY HC 1

2022

GEOGRAPHY

(Honours)

Paper : GGY-HC-1016

(Geomorphology)

Full Marks : 60

Time : Three hours

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

1. Answer/Choose the correct answer/option of the following : **(any seven)** $1 \times 7 = 7$
- (a) What is relief?
- (b) 'Foreland' is a term associated with
- (i) isostasy
 - (ii) continental drift theory
 - (iii) Kober's theory
 - (iv) Convection current theory
- (c) What is soil creep?

Contd.

- (d) Define 'Geomorphology'.
- (e) The theory of landscape development was propounded by W. M. Davis in
- (i) 1899
 - (ii) 1889
 - (iii) 1885
 - (iv) 1888
- (f) Cirque is a landform of
- (i) aelian origin
 - (ii) fluvial origin
 - (iii) periglacial origin
 - (iv) glacial origin
- (g) What are gorges ?
- (h) Name the landform developed due to tensional force.
- (i) What is solifluction ?
- (j) Name *any one* of the major tectonic plates of the earth.
- (k) Give an example of endogenetic force.
- (l) Who gave the concept of 'convective currents' ?

2. Answer the following questions in very short :
(any four) 2×4=8

- (a) How are faults formed ?

- (b) Mention *two* characteristics of geosynclines.
 - (c) What are convective currents ?
 - (d) Mention *two* sub-branches of geomorphology.
 - (e) Mention the characteristics of levees.
 - (f) Define geomorphic processes.
 - (g) Mention *two* effects of volcanic eruption.
 - (h) What is pediplain ?
3. Answer **any three** of the following questions : 5×3=15
- (a) Explain the depositional processes in arid region.
 - (b) Distinguish between weathering and erosion with examples.
 - (c) State how folds are formed and mention the major types of folds.
 - (d) Discuss the factors responsible for occurrence of earthquakes.
 - (e) Explain the process of mass wasting and classify the various types of mass movements.
 - (f) Explain the process of peneplain formation.
 - (g) Explain the significance of geomorphology.

(h) State the processes of sand dune formation.

4. Answer **any three** of the following questions : 10×3=30

- (a) Describe the characteristics of different layers of the interior of the earth with a neat diagram.
- (b) Present a comparative note on the views of Penck and Davis on landform development.
- (c) Explain the concepts and ideas associated with the theory of isostasy with necessary diagrams.
- (d) How do volcanoes occur? Describe the components of volcanoes with neat diagrams.
- (e) Discuss the recent trends of geomorphology with examples.
- (f) Discuss the exogenetic forces responsible for landform development.
- (g) Explain with diagrams how continents are drifted.
- (h) State how the study of earthquake waves helps to understand the characteristics of the interior of the earth.