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3 (Sem-1/CBCS) GGY HC 1

2021

(Held in 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 : 1×7=7
- (a) What is earth's crust ?
- (b) Mass wasting is a/an
- (i) depositional process
 - (ii) weathering process
 - (iii) exogenetic process
 - (iv) tectonic process

Contd.

(c) The term 'level of compensation' is associated with

- (i) Kober's theory
- (ii) convection current theory
- (iii) continental drift theory
- (iv) isostasy

(d) Name the major tectonic plate adjoined with India.

(e) The average density of the Sima layer varies from

- (i) 1.5 to 5.5
- (ii) 3.8 to 6.3
- (iii) 2.9 to 4.7
- (iv) 1.1 to 3.2

(f) Zeugen is a landform of

- (i) fluvial origin
- (ii) aeolian origin
- (iii) glacial origin
- (iv) periglacial origin

(g) What is a graben ?

2. Answer the following questions in very short : 2×4=8

- (a) How are levees formed ?
- (b) Give *one* example of active volcanoes and *one* example of dormant volcanoes of the world.
- (c) What are syncline and anticline ?
- (d) Briefly state the relationship between Geomorphology and Geology.

3. Answer **any three** of the following questions : 5×3=15

- (a) Distinguish between aggradational and degradational processes on a river bed with diagrams.
- (b) Explain the erosional processes of glaciers.
- (c) State the evidences in support of the continental drift theory.
- (d) Explain the views of Penck on landform development.
- (e) "Geomorphology is the interpretative description of the relief features of the earth's surface." Elucidate the statement.

4. Answer **any three** of the following questions : $10 \times 3 = 30$

(a) Discuss the widening scope and significance of geomorphology in recent years. $6 + 4 = 10$

(b) State the views of Kober on mountain building with focus on the formation of the Himalayas. 10

(c) Explain the mechanics of plate tectonics in relation to occurrence of earthquakes. 10

(d) What is normal cycle of erosion ? Describe the sequence of cyclic development of landforms as conceived by Davis. $2 + 8 = 10$

(e) What are convective currents ? How, according to Holmes, the convective currents give rise to mountains and oceans ? $2 + 8 = 10$