

3 (Sem-1) GGY M 2 (O)

2019

GEOGRAPHY

(Major)

Paper : 1-2

(Basis of Geomorphology)

(Theory)

Full Marks : 60

Time : 3 hours

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

Answer **all** questions

1. Choose the correct option of the following :

1×7=7

(a) Which of the following represents weaker zones of the earth's crust?

(i) Fault

(ii) Fold

(iii) Joint

(iv) None of the above

(b) The shape of the earth can best be defined by the term

(i) tetrahedron

(ii) elliptical

(iii) spherical

(iv) geoid

(c) Which waves cover longer distances of all the seismic waves?

(i) Primary waves

(ii) Surface waves

(iii) Secondary waves

(iv) Both (ii) and (iii)

(d) Which of the following is not a depositional landform?

(i) Alluvial fan and cone

(ii) Delta

(iii) Natural levee

(iv) Gorge

(e) Moraines are depositional feature of

(i) wind

(ii) glacier

(iii) river

(iv) volcanoes

- (f) Barysphere represents
- (i) solid portion of the continents
 - (ii) boundary between lower crust and upper mantle
 - (iii) innermost zone of the interior of the earth
 - (iv) None of the above.
- (g) Tibetan Plateau is an example of
- (i) lava plateau
 - (ii) dome plateau
 - (iii) piedmont plateau
 - (iv) intermontane plateau

2. Write very briefly on the following : 2×4=8

- (a) Fluvial geomorphology
- (b) Base level of erosion
- (c) Sand dunes
- (d) Diastrophism

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

- (a) Discuss physical geography as a correlative natural science. 5
- (b) Discuss the geographic impact of earthquakes. 5
- (c) Distinguish between peneplains and pediplains. 5
- (d) Point out the distinctive relief features of the hill and mountain region with examples. 5

(e) Draw a sketch of a typical composite volcano and mark thereon the following : $2+1+1+1=5$

- (i) Dome
- (ii) Vent
- (iii) Crater

4. (a) Define physical geography. Give a brief account of its main sub-branches. $2+8=10$

Or

(b) "Continents and oceans are almost antipodal everywhere."

Discuss this statement in the light of Lowthian Green's views about the origin and development of major landforms. 10

5. (a) Give a critical analysis of Kober's theory of mountain building and illustrate your answer with the help of proper diagrams. 10

Or

(b) Discuss in detail Walther Penck's model of landform development.

6. (a) Discuss in detail the arid cycle of erosion. 10

Or

(b) Define flood plains. Describe the morphology of flood plains with diagrams. $2+8=10$
