

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

**2 0 1 9**

**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**

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- (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

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- (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

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