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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 :  $1 \times 7 = 7$
- (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 : 10×3=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

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3 (Sem-1/CBCS) GGY HC 2

2021

(Held in 2022)

**GEOGRAPHY**

(Honours)

Paper : GGY-HC-1026

**(Cartographic Techniques)**

Full Marks : 60

Time : Three hours

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

1. Answer the following questions very objectively :  $1 \times 7 = 7$ 
  - (a) What is authalic sphere ?
  - (b) What is the formula for surface area of one hemisphere of the earth ?
  - (c) What is the formula for finding out the length of the arctic circle ?

Contd.

- (d) For which parallel of latitude, the latitude and co-latitude are same ?
- (e) Give an example of semi-quantitative thematic map.
- (f) What is small scale map ?
- (g) If the scale of a map is 1: 20,000, what will be its scale in statement ?

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

- (a) What is latitude ? Mention its extension.
- (b) What is the extension of latitude and longitude of a Survey of India toposheet with scale 1:50,000 ?
- (c) What is geoid ?
- (d) Mention *two* basic properties of a cylindrical projection.

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

- (a) Write the meaning and importance of cartography in geography.

(b) Distinguish between traditional and modern geography.

(c) What is simple thematic map? Mention its characteristics with example.

1+4=5

(d) Discuss the characteristics of India and adjacent country map series.

(e) Briefly present the principle and technique of representing various types of point data.

4. Distinguish between zenithal projection and conical projection with respect to basic properties and uses. 10

**Or**

Write the basic problems associated with thematic mapping. 10

5. Explain the principle and procedure of converting point data to area data. 10

**Or**

With diagrams explain the difference between latitude and longitude. 10

6. What is map ? Mention its salient characteristics and scheme of classification.  $2+(4+4)=10$

**Or**

Throw light on map scale and map content with examples. 10