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) 1×7=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
- (a) 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.
- (1) 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.

3 (Sem-1/CBCS) GGY HC 2

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 **any seven** questions from the following very objectively: 1×7=7
 - (a) What is the shape of the earth?
 - (b) Write the formula for finding out the length of tropic of cancer.
 - (c) If the statement scale of a map is 1 cm to 25 km, what will be its scale in R.F?
 - (d) How many dimensions do the line features have?
 - (e) What is the extension of longitude of the globe?

Contd.

- (f) Give an example of qualitative thematic map.
- (g) Mention one property of cylindrical map projection.
- (h) Write the formula to find out the length of any meridian.
- (i) Give an example of choropleth map.
- (j) What is the difference in the length between the equatorial diameter and polar diameter?
- (k) What is the average radius of the earth?
- (l) In a cylindrical projection which parallel is normally a standard parallel?
- 2. Answer any four from the following questions in very short: 2×4=8
 - (a) Define great circle with an example.
 - (b) What is a standard parallel?
 - (c) If a map with scale 1:250,000 is enlarged by five times, what would be the scale of the resultant map?
 - (d) What is meant by polar coordinate system?
 - (e) Find out the formula to calculate the area between two parallels of latitude on the earth.

- (f) What is a conventional projection?
- (g) State the basic difference between gnomonic and stereographic map projections.
- (h) Define latitude.
- 3. Answer **any three** of the following questions in brief: 5×3=15
 - (a) Distinguish between traditional cartography and modern cartography.
 - (b) What is thematic map? Mention its basic characteristics. 1+4=5
 - (c) What is a map? Distinguish between planimetric map and hypsometric map with examples. 2+3=5
 - (d) Distinguish between latitude and longitude with the help of suitable diagrams.
 - (e) Write a note on choice of map projection.
 - (f) Compare the basic properties and uses between cylindrical and conical map projections.
 - (g) Discuss the utilities of thematic maps with examples.
 - (h) Throw light on representation of line data in thematic maps.

- 4. Answer **any three** of the following questions: 10×3=30
 - (a) Define cartography and discuss its importance in geography. 2+8=10
 - (b) Discuss the changing concept of shape of the earth and highlight the associated problems in the case of construction of map projection.

 6+4=10
 - (c) With necessary illustrations explain the procedure of representation of area data in maps.
 - (d) What is zenithal map projection? Present the detailed scheme of its classification. 2+8=10
 - (e) What is quantitative thematic map? Explain the procedure of preparing such a map. 2+8=10
 - (f) Distinguish between choropleth map and isopleth map. Mention their relative utilities in spatial analysis. 5+5=10
 - (g) Explain with necessary illustrations about conversion of point data into line and area data in thematic maps.
 - (h) Discuss with justification about selection of suitable map projection for world mapping.