Total number of printed pages-4

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.

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- (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.

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Contd.

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.

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