

*Total number of printed pages-4*

**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 : 1×7=7
  - (a) What is a gnomonic 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