

B. SC. GEOGRAPHY 1ST YEAR 2ND SEMESTER EXAMINATION 2022**Subject: Surveying and Mapping****Paper: SC/GEOG/UG/CORE/TH/04****Time: 1 hour 30 minutes****Full Marks: 30****GROUP-A***Answer any one questions**10x1 = 10*

1. What is the difference between interval and ratio as scale of measurement? What are choropleth maps? Explain their principles of construction and uses. 2+2+6
2. Construct a longitudinal profile from the following data. Also find out the gradient from point 1 to point 5. 4+4+2

Station	Points	Distance (m)	BS (m)	IS (m)	FS (m)	Remarks
A	1	0	1.5			BM=25 metres
	2	5		1.2		
	3	10		0.8		
	4	15		0.7		
	5	20			1.4	

GROUP-B*Answer any two questions**5x2 = 10*

3. Distinguish between chorochromatic map and choroschematic map. What are the uses of cadastral maps?
4. What is magnetic declination? How is it related to the bearing of a line?
5. Mention the types of bearing and their advantages.
6. What is the toposheet no. of north of 73J/9? What are the marginal information available on toposheets with 1:50000 scale?

GROUP-C*Answer any two questions**2x2 = 4*

7. Differentiate geoid from ellipsoid?
8. The area of a drainage basin on a map with a scale 1:50,000 is measured as 200 sq. cm. Find its ground area and also find its map area when it is enlarged to 1: 10,000.
9. What are the units of drainage frequency and drainage density?
10. What is the method of angular error distribution in case of a closed traverse?