REV-01 BGE/23/28

2024/05

BA/B.Sc. GEOGRAPHY FOURTH SEMESTER FUNDAMENTALS OF CARTOGRAPHY

SET

BGE – 401 [USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Objective)

Time: 30 min.

Marks: 20

Choose the correct answer from the following:

 $1 \times 20 = 20$

- 1. A map with a scale of 1:50,000 means

 a. One unit on the map represents 50000 units on the ground

 b. One unit on the ground represents 50,000 units on the map

 c. The map covers an area of 50,000 square units

 d. The map is 50,000 units long
- 2. Radius of the earth equals
 - a. 250,000,000 cm
 - c. 640,000,000 cm

- b. 350,000,000 cm
- d. 540,000,000 cm
- The cadastral maps, topographical maps and the city plans come under the category of
 - a. Large scale maps
 - c. Medium scale map

- b. Small scale maps
- map d. All of the above
- 4. The network of the parallels and meridians so formed in a map projection is called
 - a. Graticule
 - c. Longitude

- b. Latitude
- d. Equator
- 5. Mercator Projection is a type of -----Projection
 - a. Cylindrical

b. Conical

- c. Gnomonic
- Mercator projection is most suitable for a. Navigation and sea travel
- c. Depicting accurate and areas
- b. Representing polar region

d. None of the above

- Showing accurate distances and
- angles.
- 7. Orthomorphic denotes in map projection is
 - a. True bearing
 - c. True distance

- b. True shape
- d. True direction
- 8. Which is not component of map?
 - a. Distance
 - c. scale

- b. direction
- d. symbol

9.	Which type of map is primarily used to represent elevation and terrain?		
	a. Political map	b. Topographic map	
	c. Climate map	d. Economic map	
10.	A map with a scale of 1:1,000,000 would be considered:		
	a. Large scale	b. Small scale	
	c. Medium scale	d. No scale	
11.	Which type of thematic map uses shading to areas?	o represent different values in different	
	a. Choropleth Map	b. Dot Map	
	c. Isoline Map	d. Flow Map	
12	2. When creating a contour map, lines of equal elevation are known as		
12.	a. Isolines	b. Isopleths	
	c. Isobars	d. Isotherms	
13.	Qualitative data can be graphically represen		
	a. Histogram	b. Frequency polygon	
	c. Ogive	d. Bar graph	
14.	In any thematic map which of the following phenomenon; its spatial pattern, distribution	n and dispersion.	
	a. Isopleth mapping	b. Isoline mapping	
	c. Choropleth mapping	d. Dot method mapping	
15.	Transport routes of a region can be shown l	by which of the following methods?	
	a. Choropleth maps	b. Graded Symbol maps	
	c. Chorochromatic maps	d. Flow maps	
16.	In surveying, what is the purpose of the teca. Measuring elevations	hnique known as triangulation? b. Estimating distances	
	c. Establishing control points	d. Creating contour lines	
17.	Which surveying technique involves measu attached to a flat table?		
	a. Plane Table Surveying	b. Triangulation Surveying	
	c. Contouring Surveying	d. Profile Drawing Surveying	
18.	During a traverse survey, what instrument angles?	is commonly used to measure horizontal	
	a. Total Station	b. Prismatic Compass	
	c. Theodolite	d. Alidade	
19.	An imaginary line joining the point of interdiaphragm and the optical centre of the obj		
	a. Fundamental line	b. Axis of telescope	
	c. Axis of level tube	d. Line of collimation	
		di anti di communici	

20. An arbitrary surface with reference to which the elevation of points are measured and compared is called ____
a. Datum surface

e. Horizontal surface

b. Level surface

d. Vertical surface

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$\left(\ \underline{Descriptive} \ \right)$

Time: 2 hrs. 30 mins. Marks: 50

[Answer question no.1 & any four (4) from the rest]

1.	Describe the difference between the diagram and graph. Explain the types of diagrams based on the composition method.	3+7=10
2.	Explain the concept of map projection and discuss its types?	3+7=10
3.	What is map scale? Discuss the different types of map scales and highlighting the application of map scale.	2+4+4 =10
4.	What is Mercator's projection? Explain its properties, uses and limitations.	2+4+2+2 =10
5.	Explain the factors that influence the selection of a map projection in cartography?	10
6.	Write brief notes on: a. Types of thematic maps b. Advantages and disadvantages of isopleth maps	5+5=10
7.	What do you mean by surveying? Explain different types of surveying and illustrate your answer with examples.	2+8=10
8.	What do you mean by prismatic compass survey? Explain in detail the methods of prismatic compass survey.	3+7=10

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