

10. Which of the following cannot be done with the help of theodolite in surveying?
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|-----------------------------------|-----------------------------|
| a. Measuring horizontal distances | b. Prolonging survey lines |
| c. Laying off horizontal angles | d. Locating points on lines |
11. Azimuthal projections are so named because
- | | |
|--|--|
| a. The surface of projection is a plane | b. The surface of projection is horizontal |
| c. Directions from the centre remain correct | d. Light is focused from the azimuth |
12. A map projection that shows an area between latitude and longitude equal in size to the area on the globe is known as-
- | | |
|---------------------------|--------------------------|
| a. Cylindrical projection | b. Conic projection |
| c. Azimuthal projection | d. Equal-Area projection |
13. Which of the following sets represent the correct set of map classification?
- | | |
|--------------------------|----------------------------|
| a. Cadastral, thematic | b. Thematic, geographic |
| c. Cadastral, geographic | d. Geographic, topographic |
14. In which of the following ways, meridians are projected in cylindrical projection?
- | | |
|-------------------|------------------|
| a. Mathematically | b. Geometrically |
| c. Horizontally | d. Vertically |
15. Determine the scale of the map if the distance on the map is given as 2cm which is equal to 1km on the ground.
- | | |
|--------------|------------|
| a. 1: 50000 | b. 1: 5000 |
| c. 1: 100000 | d. 1: 500 |
16. GIS captures and analyses _____ data.
- | | |
|-----------------|----------------------|
| a. Spatial | b. Geographic |
| c. Both a and b | d. None of the above |
17. Which among the following is not related to GIS software's?
- | | |
|------------|--------------|
| a. CAD | b. ArcGIS |
| c. ArcView | d. STAAD Pro |
18. Among the following which do not come under the components of GIS?
- | | |
|-------------|-------------|
| a. Hardware | b. Software |
| c. Compiler | d. Data |
19. Web GIS introduces distinct advantages over traditional desktop GIS because _____
- | | |
|---|----------------------------|
| a. It is borderless and have a global reach | b. A large number of users |
| c. Better cross-platform capability | d. All of these |
20. A way of collecting information about something without physically being there is known as:
- | | |
|------------------------------|----------------------------|
| a. Detailed Image Processing | b. Remote Sensing |
| c. Digital Image Stabilizing | d. Remote Image Generation |

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(PART-B : Descriptive)

Time: 2 HRS 40 MINS

Marks : 50

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

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| 1. Write the nature of Cartography? Put forward an explanation regarding the changes of traditional vs modern cartography? | 4+6=10 |
| 2. Write short notes on:
a. Map design and layout
b. Thematic mapping | 5+5=10 |
| 3. Define surveying. Describe the classification of surveys based on instruments used. | 3+7=10 |
| 4. Explain in detail the methods of prismatic compass survey. What are the sources of error in a prismatic compass survey? | 6+4=10 |
| 5. Classify map projections based on their properties and explain with diagrams any one group of your choice. | 5+5=10 |
| 6. Write the construction of cylindrical projections with support of required diagrams. Also write its properties, limitations and uses. | 5+5=10 |
| 7. Define GIS and explain the components of GIS. | 2+8=10 |
| 8. Differentiate between raster and vector-based GIS. Explain the concept of 'time' and 'space' and their role in spatial data. | 5+5=10 |

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