MA/ M.SC. GEOGRAPHY SECOND SEMESTER FUNDAMENTALS OF CARTOGRAPHY

MGE - 204 [SPECIAL REPEAT] [USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

2023/08 SET A

Full Marks: 70

Objective) Time: 30 min. Marks: 20 Choose the correct answer from the following: 1X20 = 201. The method of mapping depends on thea. Size of the area b. Degree of accuracy aimed at c. Amount of details required d. All of the above. 2. How would you measure the location of a place on the earth's surface? a. Using latitude b. Using longitude c. Using longitude and latitude d. Using scale 3. Maps that shows detailed physical features of particular place are calleda. Topographical maps b. Atmospheric maps c. Economic maps d. Symbolic maps 4. Line of latitude and longitude cross each other forming a: a. Table system b. Geographical system c. Magnetic system d. Grid system 5. 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 6. In geodetic surveys higher accuracy is achieved, if a. Curvature of the earth surface is b. Curvature of the earth surface is taken ignored into account c. Angles between the curved lines are d. None of these treated as plane angles 7. When the bubble of the level tube of a level, remains central_ a. Line of sight is horizontal b. Axis of the telescope is horizontal d. Geometrical axis of the telescope is Line of collimation is horizontal horizontal 8. Back bearing of a line is equal to ___ a. Fore bearing ± 90° b. Fore bearing ± 180° c. Fore bearing ± 360° d. Fore bearing ± 270° 9. Dumpy level is used for a. Finding point to point distance Finding the elevation difference

d. Finding the perimeter of area

c. Finding the traverse area

a. Transiting	b. Reversing
c. Plunging	d. Swinging
 A fixed point on Earth's surface from which known as: 	h direction and location can be described is
a. Landmark c. Perfect Point	b. Reference Pointd. Fixed point
2. Most distorted area in projection is area :	
a. Far from latitudeb. Far from longitude	b. Close to the latituded. Close to longitude
3. In Mercator Projection, distance between lin	nes of longitude is: b. Variable
a. Equalb. More in northern hemisphere	d. More in southern hemisphere
1. Point of contact of azimuthal plane is usual	
a. Tropic	b. Equator
c. Axis	d. Pole
5. Large maps like maps showing countries or	
a. Less distortion	b. More distortion
Zero distortion	 d. Distortion depending on the map scale.
. GIS uses the information from which of the	following sources?
a. Non-spatial information system	b. Spatial information system
c. Global information system	d. Position information system
. Among the following which do not come un	
a. Hardware	b. Software
c. Compiler	d. Data
. Digital Elevation Model is best represented	
a. Vector Data Models	b. Raster Data Models
c. Coverage Data Structure	d. Non-Topological Data Structure
The smaller the cell size for the raster layer:	
a. The lower the resolution and the	
more detailed the map C. The higher the resolution and the more	the detailed map d. The higher the resolution and without
detailed the map	the detailed map
. Web GIS introduces distinct advantages ov	ver 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

Descriptive

Time: 2 hrs. 30 mins. Marks: 50

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

10 1. Discuss with necessary illustrations the role of cartographic methods in depicting various geographical phenomena from proper perspectives. 2. Distinguish between general purpose map and thematic map. 5+5=10 Discuss the problems associated with the construction of various types of thematic map. 3. What do you mean by surveying? Explain different types of 2+8=10 surveying and illustrate your answer with examples. 4. Discuss the principles and procedures associated with 3+7=10 topographic surveying of a small area using Dumpy level. 5. Classify projections and discuss the merits and demerits of 4+6=10 cylindrical projections. 6. What is a Zenithal map projection? Briefly discuss the utilities 2+8=10 of this type of map projection for mapping different parts of the world. 7. Differentiate between raster and vector-based GIS. Explain 5+5=10 the concept of 'time' and 'space' and their role in spatial data. 8. Briefly discuss the DEM and DTM approaches that can be 5+5=10 used to generate and compare map surfaces.

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