

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted during the academic year 2009– 10 & thereafter)**

**SUBJECT CODE : CS/PE/GI13**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2010**  
**INFORMATION TECHNOLOGY**  
**FIRST SEMESTER**

**COURSE : ELECTIVE**  
**PAPER : GEOGRAPHICAL INFORMATION SYSTEM**  
**TIME : 90 MINUTES** **MAX.MARKS: 50**

**SECTION – A**

**ANSWER ALL THE QUESTIONS : (5 x 2 = 10 marks)**

1. What is a 'layer'? How are layers useful in GIS?
2. What is 4D GIS?
3. What is a raster?
4. Briefly explain Mobile GIS.
5. What does the term 'scale' in map making mean?

**SECTION – B**

**ANSWER ANY FOUR QUESTIONS : (4 x 5 = 20 marks)**

6. What is meant by emergency response planning?
7. What are the salient features of AutoCAD Map software?
8. Can a database be linked with a digital map? If yes, what are the advantages of doing so?
9. Briefly list any five applications of GIS.
10. What are points, lines and polygons with respect to GIS?

**SECTION – C**

**ANSWER ANY TWO QUESTIONS : (2 x 10 = 20 marks)**

11. What is remote sensing? What is spatial resolution? How does GPS work? What are the disadvantages of data capture through satellites?
12. a. What is 3D GIS? What are the advantages of integrating GIS with multimedia?  
b. What are the advantages of GIS analysis over traditional methods?
13. A telecom company is planning to lay fibre optic cable along all main roads of a town. Explain how they can use GIS in implementing this project. Detail all the phases of the project.

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