

**2008****M.Sc.****3rd Semester Examination****REMOTE SENSING AND GIS****PAPER—X***Full Marks : 40**Time : 2 Hours**The figures in the right-hand margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.**Answers each module in separate books.***Module—I (RG-2103)**

Answer any two questions.

2×10

1. Briefly outline the important application areas of remote sensing techniques (Geoinformatics). What type of remotely sensed data are useful for land use / land cover study? 7+3
2. What is defence intelligence? How does remote sensing aid preparedness for defence? 3+7
3. (a) Discuss the scope of application of geoinformatics for rescue and relief operation after natural disaster. 5  
(b) Comment on the role of remote sensing and GIS in forest cover inventoring and monitoring. 5

*(Turn Over)*

4. What are the data source for mapping the extent of urban area? How geoinformatics can be applied for mapping urban sprawl? What are the standard image interpretation techniques to delineate urban extent? 2+4+4

**Module—II (RG-2104)**

Answer any *two* questions. 2×10

5. What is the role of decision support systems using GIS data base? What is SDSS architecture? 10
6. (a) What is 'Multiple Criteria Decision Making'? 3  
(b) Discuss very briefly the seven elements of Multiple criteria decision making. 7
7. (a) Why spatiality involves in decision making? 1  
(b) How the decision making can be structured into three phases? 9
8. Write short notes on any *two* of the following : 5+5  
(a) Spatial and non-spatial analysis modelling.  
(b) Framework for planning and decision making.  
(c) Model based management system.  
(d) Characteristics of DSS.
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