

M.Sc. 3rd Semester Examination, 2011

REMOTE SENSING AND GIS

PAPER – RSG-302 (Gr.- A + B)

(Theory)

Full Marks : 40

Time : 2 hours

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

GROUP – A

[Marks : 20]

Answer any two questions

- 1. Briefly discuss the Hypermedia GIS concept in the approach of Geoinformatics. Prepare a LIS paradigm following the architecture of Geoinformatics.**

5 + 5

(Turn Over)

2. Explain the concept of 4D GIS in the study of Geoinformatics. What do you mean by open GL and API? What are linear and non-linear techniques in Geoinformatics? 4 + 3 + 3
3. Explain the 'open GIS' and its utility in comparison to the branded GIS softwares. 10
4. Discuss the use of various types of RS data and non-spatial data in flood management at mouza level study. 10

GROUP – B

(Spatial Decision Support System)

[Marks : 20]

Answer any **two** questions

1. (a) What is decision alternatives?
(b) How the Boolean algebra is used in decision making process?
(c) Briefly discuss overlay analysis. 2 + 4 + 4

2. (a) What do you mean by conceptual database model ?
- (b) Define object oriented database model
- (c) On what basis the criteria for modelling are selected ? $2\frac{1}{2} + 2\frac{1}{2} + 5$
3. Describe the basics of spatial and non-spatial analysis and modelling. 10
4. Write short notes on (any two) : 5 + 5
- (i) Reclassification
- (ii) RDBMS
- (iii) MDOM
- (iv) Model Based Management System
- (v) Difference between SDSS and GIS.
-