

2018

M.Sc. 1st Seme. Examination

REMOTE SENSING & GIS

PAPER—RSG-102

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

RSG—102.1

Fundamentals of Geographic Information Systems

[Marks : 20]

Answer any *two* questions :

2×2

1. What is Topology in GIS ?
2. Why is 'data' in GIS called georeferenced ?

(Turn Over)

3. List the major applications areas of GIS.
4. Define 'spatial data'.

Answer any *two* questions :

2×4

5. What is the difference between raster and vector data ?
6. Explain the different error in digitization.
7. Discuss the nature and source of spatial and attribute data in GIS.
8. What are the different components of GIS ?

Answer any *one* question :

1×8

9. (a) What is raster data model ?
 (b) How do you creat raster data models ?
 (c) What is mixed pixel issue in GIS ? How it can be represented ?
- 2+2+(2+2)
10. Explain briefly the technology component of GIS.

RSG—102.2**Digital Cartography****[Marks : 20]****Group-A**Answer any *two* questions :

2×2

1. What is RGB color model ?
2. How map lettering helps in Cartographic design ?
3. What is the concept of digital cartography ?
4. How the exaggeration technique is used in Cartographic design ?

Group-BAnswer any *two* questions :

2×4

5. Write a short note on qualitative and quantitative data.
6. Briefly explain the concept of large scale and small scale map with suitable example.

7. How the concept of digital cartography is utilized in GIS application ?
8. What is Rubber sheeting ? When this type of transformation is in use ?

Group-C

Answer any one question :

1×8

9. Discuss about different types of variables in measuring geographic data variability.
 10. What are the advantages and disadvantages of digital cartography ?
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