

2016

M.Sc.

3rd Semester Examination

REMOTE SENSING & GIS

PAPER—RSG-302

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.

Group-A

(Fundamental of Research)

[Marks : 20]

Answer any two questions.

1. (a) Name the characteristics of good research design.

(b) Define probability sampling.

5+5

(Turn Over)

2. (a) Describe the types of hypothesis with suitable example.
(b) State the important uses of hypothesis. 5+5
3. (a) What are the criteria for good research ?
(b) What are the sources for the research problem identification and selection ? 5+5
4. (a) Define "research methodology".
(b) Explain how the review of related literature is more useful for any research.

Group-B

(Research Methodology & Project Management)

[Marks : 20]

Answer any *two* questions.

1. What are the salient characteristics of hypothesis testing ?
What do you mean by two-tailed and one-tailed test ? Explain the procedure of testing hypothesis through chi-square.
4+3+3

2. What do you know about ethical issues in research ?
Estimate standard error of estimate when $r = 0.97$ and $SO_y = 7.05$.

What will be the range of predicted y ($Y_{pred} = 33.2$) at 95% level of confidence ? 4+3+3

3. A project proposal on Flash-Flood hazard management of an area is to be submitted — What will be your role in framing the project proposal as RS & GIS specialist. 10
4. What are the sources for the research problem identification and selection ? What do you mean by aims and objectives of a research programme ? 5+5
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