BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

> SEMESTER : II SESSION : SP/22

SUBJECT: RS 521 DATA SOURCES, STATISTICS AND RESEARCH METHODS IN GEOSPATIAL DOMAIN

TIME: 2 Hours

FULL MARKS: 50

[5]

INSTRUCTIONS:

CLASS:

BRANCH:

1. Answer all questions

M.Tech.

REMOTE SENSING

2. Marks for each question is indicated against the respective questions

- Q.1(a) In geospatial research domain, what are the types of various geospatial data required? Give [6] a concise account with suitable examples from national and international projects.
- Q.1(b) Discuss two significant international and national web-based sources each providing access [5] to geospatial data for research.
- Q.2(a) What are the contents of a research proposal? Elaborate [6]
- Q.2(b) What is the difference between a section and a paragraph? Give example of a coherent [5] paragraph

OR

What is a topic sentence paragraph? Explain structure of a topic sentence paragraph with an example.

- Q.3(a)a. Classify sampling techniques, graphically.[3]b. What is the difference between probability-based sampling vs. non-probability based[2]Q.3(b)Explain with example:[5]
 - a) Z testb) Chi-square testAlso mention when will you use each one of them.
- Q.4(a) What is understood by quantitative and qualitative research? Elaborate the differences [5] between these two types of research
- Q.4(b) What are research techniques and tools? Give a short narration.
- Q.5(a) Explain following terms with examples: Impact Factor and h-index [4]
- Q.5(b) Write short notes on <u>any two models</u>: i. SRM ii. PRMS iii. HBV iv. UBC Model [4]

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