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

CLASS: M.TECH   SEMESTER : II
BRANCH: RS   SESSION : SP/19

SUBJECT: RS602 DATA SOURCES, STATISTICS AND RESEARCH METHODS IN GEOSPATIAL DOMAIN
TIME: 3.00 HOURS   FULL MARKS: 50

INSTRUCTIONS:
1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a)	List the satellite data availability on USGS Earth Explorer site and their usability for different Geospatial studies.	[5]
Q.1(b)	Explain approach of current national level Geospatial domain projects.	[5]
Q.2(a)	Give a sample write up of Geospatial domain project proposal.	[5]
Q.2(b)	Highlight the difference between a proposal and a report.	[5]
Q.3(a)	Describe 'percentiles' and 'percentile ranks'? What are the differences between 'percentiles', 'quartiles' and 'deciles'?	[5]
Q.3(b)	What is meant by 'correlation'? Describe 'linear correlation' and 'calculation of correlation coefficient'.	[5]
Q.4(a)	What is meant by 'research'? What are the purposes and characteristics of research? Discuss.	[5]
Q.4(b)	How can 'geoinformatics' help in analyzing geo-spatial research problems? Discuss with help of a case study.	[5]
Q.5(a)	Write a coherent paragraph on flash flood prone area using suitable connectives.	[5]
Q.5(b)	What is an 'impact factor' and how can it be a measure of quality of a research journal? How can an author select the right journal for his manuscript considering the Impact Factor of the journals?	[5]

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