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

CLASS: M.TECH SEMESTER EXAMINATION)

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SEMESTER: III

SEMESTE

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.

Q.5(b) (i) Compare different styles of Referencing.

(ii) What is the difference between Bibliography and Reference?

- 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) How can geospatial research problems be understood? Explain with example. [5] Q.1(b) Describe and justify requirements of geospatial data for research. [5] Q.2(a) Discuss National and International projects with some examples. [5] Q.2(b) Describe geospatial data providers at global and national level. [5] Q.3(a) (i) Why do we need to carry out statistical tests in Research? [5] (ii) Explain Student T-Test. (iii) When you will use ANOVA in your Research? You are told to make a Height reading at a location. The observations you got at different times [2+2+1=5] are as below: 78.23, 78.54.79.04,78.4, 79.35, 78.90,78.5, 79.22,78.99, 79.44, 77.23, 78.87, 79.05, 78.66, 78.90, 79.33 (i) Estimate the Standard Error in this Observation. (ii) What is the probable value range of x at 95% confidence interval? Q.4(a) (i) Differentiate Qualitative and Quantitative Research (QR) in Detail. [2+2+1=5](ii) What are the difficulties in Qualitative research? (iii) Give 5 different applications where you will apply Questionnaire based survey? (i) Name 10 different Geoinformatics Tools you are aware of? Q.4(b) [2.5+2.5=5](ii) Name 5 different Research Models used in Forestry, Geology and Water resources domain. Q.5(a) (i) What is Plagiarism in Research? [2+3=5](ii) Explain the Terminologies: h-index, impact factor, citescore.

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[4+1=5]