

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2023

M.Tech-I Semester (BT)

COURSE CODE (CREDITS):18M11BT113(03)

MAX. MARKS: 15

COURSE NAME: RESEARCH METHODOLOGY AND ETHICS

COURSE INSTRUCTORS: DR.GOPAL SINGH BISHT

MAX. TIME: 1 Hour

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*Note: (a) All questions are compulsory.*

*(b) Marks are indicated against each question in square brackets.*

*(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems*

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Q1. What is the difference between primary and secondary data source? Why it is important to document your literature search? Explain the use of operator AND, OR and NOT while doing literature search. [2.5]

Q2. How lab note book of a researcher/inventor is important? Give any three anomalies that can happen while writing of lab note book. [2.5]

Q3. Why formulating research problem is most important step in research process? Discuss major considerations in selecting a research problem. [2.5]

Q4. Explain what constitute research misconduct by giving suitable examples? What are reasons for research misconduct? [2.5]

Q5. Answer/ explain the followings.

- a) How impact factor of journal is calculated. Briefly explain is it an ultimate criterion to judge quality of research publication? [2]
- b) Why research article get retracted? It is important to keep an eye on retraction/erratum. Explain. [2]
- c) Accuracy vs. Precision [1]