

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2023

M.Sc.-II Semester (BT)

COURSE CODE (CREDITS): 20MS1BT216

MAX. MARKS: 35

COURSE NAME: Research Methodology and Scientific Communication Skills

COURSE INSTRUCTORS: Dr. Poonam Sharma & Dr. Saurabh Bansal MAX. TIME: 2 Hours

Note: (a) All questions are compulsory. All sub-parts of a question should be solved at same place.

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

1. a) The first page of the research report is [1]
b) A formal document that presents the research objectives, design of achieving these objectives, and the expected outcomes/deliverables of the study is called [1]
c) List the name of tool use for plagiarism. [1]
2. Why formulating a research question is very important in order to pursue the research? [2]
3. Why do you need to review the existing literature? List the all possible benefits of doing literature review. [2]
4. How the independent variables are different from the dependent variables? Give suitable examples of each type of variables used in hypothesis. [3]
5. a) What is sampling? What are different types of sampling? How they are different? [3]
b) List the sample size deciding factors during sampling. [1]
6. What are the common issues of research misconduct? How it can be avoided? Which tools are required for finding it? Explain by citing an example. [2+2+3]
7. a) Discuss the importance of Science communicator and Scientist communicator. [3]
b) Elaborate the primary ethical principle. [3]
8. a) Elucidate the planning –evaluation cycle in “Research Design”. [3]
b) Describe the basic principle of experimental designs. [3]
9. Explain different types of authorship in research. [2]