JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2025

M.Sc.-II Semester (BT/BI)

COURSE CODE (CREDITS):20MS1BT216 (2)

MAX, MARKS: 15

COURSE NAME: Research Methodology and Scientific Communication Skills

COURSE INSTRUCTORS: Dr. Gopal Singh Bisht

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

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

Q. No	Question Question	Marks
Q1 Q1	Study the following case and then answer the questions Dr. ABC, a senior researcher at a prestigious university, published groundbreaking findings on a new cancer treatment. His results showed an almost 90% success rate in reducing tumor sizes, gaining widespread attention and leading to further funding. However, a junior researcher in his lab noticed discrepancies in the raw data. Upon further investigation, it was discovered that Dr. ABC had fabricated a significant portion of the results. The university launched an inquiry, leading to the retraction of the paper and the termination of Dr. ABC's position. a) What type of research resconduct occurred in this case? Analyze which chical principles were violated? [2] b) What were the consequences of the misconduct? How could this misconduct have been prevented? [2] c) What lessons can be learned from this case? [1]	
Q2	Answer/Explain the following questions. A) How impact factor of a research journal is calculated? Is Impact factor a true criterion for judging quality of research paper? Justify your	2
	answer. b) Evaluate the importance of documenting your literature search.	2,
Q3	Design a comprehensive framework for identifying and formulating a research problem. Develop and justify key criteria that researchers should consider while selecting a research problem. Create real-world examples illustrating how different research problems are formulated and refined based on these criteria."	6