31/05/2026 9:30 AM

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

T1 Examination-2026

M.Sc BT -3rd Sem (BT)

COURSE CODE(CREDITS): 18M11BT113 (3) MAX. MARKS: 15

COURSE NAME: Research Methodology &Ethics

COURSE INSTRUCTORS: Dr Hemant Sood MAX. TIME: 1HR

Note: a) All questions are compulsory.

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

	Question	Marks
Q1	Discuss the major steps involved in conducting a systematic literature search, from formulation of a research question to selection of relevant studies.	2.0
Q2	An effective literature review involves systematic searching, critical evaluation, synthesis of evidence, and identification of knowledge gaps." Discuss this statement and explain how you would conduct a literature review for your proposed research topic.	2.5+2.5
Q3.	What are the sources of research problems? Discuss how societal needs, scientific gaps, and technological challenges can lead to meaningful research problems.	2.5+2.5
Q4	A researcher observes that a particular biofertilizer appears to enhance plant growth under drought conditions. Formulate an appropriate research problem, research objectives, and null and alternative hypotheses for this study.	1.5+1.5