

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

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

COURSE CODE (CREDITS):20MIWBT231/21MS2B414 (2)

MAX. MARKS: 15 Min

COURSE NAME: QC Analysis and Management

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	Marks
Q1	Explain the role of HPLC in the quality control of biopharmaceuticals. Design a quality assurance sheet for HPLC quality control.	[1+2]
Q2	Evaluate the role of research and development (R&D) in improving the quality of design for a new technological product.	[3]
Q3	Assess the importance of stability studies in determining the shelf-life of active pharmaceutical ingredient and how it is carried out.	[2+1]
Q4	Explain cost of poor quality. How quality of design, conformance, and performance influence the quality of a product or service.	[1+2]
Q5	Answer/Explain the following questions. a) Quality Control vs Quality Assurance b) Quality management is burden or asset? Justify your answer	[1] [2]