JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

M.Tech-II Semester (BT)

COURSE CODE (CREDITS):**20M1WBT234 (3)** MAX. MARKS: **15**

COURSE NAME: **Clinical Diagnostics**

COURSE INSTRUCTOR: **Dr. Jitendraa Vashistt** 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. (c) Use of calculators is not allowed.*

Q. No.	Question	Marks
Q1	Explain the method of collection, preservation and transport of clinical specimen for tuberculosis disease. Also define the significance of multiple body fluids collection and diagnosis methods.	3
Q2	Define the following in brief. a) Prognostic markers b) Quality control of DNA isolated from clinical specimen c) Invasive and Non-invasive method of clinical diagnostics	3
Q3	Explain the usage of positive and negative controls in the diagnostic of a specific disease. Also explain the significance of biological and technical replicates in disease diagnosis.	3
Q4	Why blood is considered as a choice of body fluids over other body fluids for clinical diagnosis. Define its precautions during and after completion of the diagnosis.	3
Q5	What is the inference of the following in completion of a successful "Polymerase chain reaction"? a) dNTPS b) Magnesium ions c) Taq Polymerase d) Primers e)DNA Template	3

UNIVERSITY EXAMINATION-FEB-2026

136