JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-III Semester (ECE)

COURSE CODE (CREDITS): 25B11MA312(02) MAX. MARKS: 15

COURSE NAME: Numerical Techniques

COURSE INSTRUCTOR: NKT 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 calculator is allowed

Q.No	Question	CO	Marks
Q1	Round off the number 52.2756 to three decimal places and then find absolute, relative and percentage error.	CO-1	3
Q2	Find the real root of the equation $x^3 - 3x - 5 = 0$ correct to three decimal places using bisection method. The root of the equation lies between 2 and 3.	CO-1	4
Q3	Find the real root of the equation $xlog_{10}x = 1.2$ using Regula-Falsi method correct to three decimal places. The root of the equation lies between 2 and 3.	CO-1	4
Q4	Find the cube root of 18 correct to three decimal places using Newton Raphson method.	CO-1	4