05/1·30

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1EXAMINATION- 2026

BCA -ISemester

COURSE CODE (CREDITS):25BC1MA111 MAX. MARKS: 15

COURSE NAME: DIGITAL LOGIC

COURSE INSTRUCTOR:SRT 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.	Explain the following terms- • Gray Code • Excess-3 code • Binary Coded Decimal	CO-1	3
Q2.	Convert the following decimal numbers to their binary equivalent- a. $(82)_{10}$ b. $(58)_{10}$ c. $(54.6875)_{10}$ d. $(34.75)_{10}$	CO-1	4
Q3.	Convert the following fractional binary numbers to their decimal equivalent- a. $(1100101.10110)_2$ b. $10000.11)_2$	CO-1	4
Q4.	Convert the following decimal numbers to its octal equivalent- a. $(34567)_{10}$ b. $(5672)_{10}$	CO-1	2
Q5.	Convert the following hexadecimal to binary equivalent- a. $(CF8E)_{16}$ b. $(9742)_{16}$	CO-1	2

UTTKARSH MAINA G22