

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2023

B.Sc-1th Semester (MATHEMATICS)

COURSE CODE (CREDITS): 22BS1CI111 (3)

MAX. MARKS: 25

COURSE NAME Computer Fundamentals

COURSE INSTRUCTORS: Dr. Pankaj Dhiman

MAX. TIME: 1 Hour 30 Min

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

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

Q1. Explain the characteristic features of computers and their evolution to their present form. Discuss how each computer generation brought about distinctive features and improvements.

[CO-1] [4 Marks]

Q2. Convert the binary number 1101101 to its decimal equivalent.

[CO-3] [4 Marks]

Q3. Convert the decimal number 187 to its binary representation.

[CO-3] [4 Marks]

Q4. Describe the basic organization of a computer system. Explain the functions of the input unit, output unit, and storage unit. Provide real-world examples to illustrate their roles.

[CO-2] [5 Marks]

Q5. Perform the hexadecimal addition: $1A3 + 2F9$. Provide the result in hexadecimal.

[CO-2] [4 Marks]

Q6. Convert the octal number 345 to its binary equivalent.

[CO-3] [4 Marks]