JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2023

B.Sec-1st Semester

COURSE CODE (CREDITS): 22BS1CI111 (3)   MAX. MARKS: 35

COURSE NAME: Computer Fundamentals

COURSE INSTRUCTORS: Dr. Pankaj Dhiman

                                                         MAX. TIME: 2 Hours

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. Discuss the characteristic features of each computer generation, highlighting technological advancements and key innovations that distinguish one generation from another.

[CO-1][5 Marks]

Q2. Detail the basic organization of a computer system, covering components such as the central processing unit (CPU), memory, and input/output devices. Explain how these components interact to execute instructions.   **[CO-2][4 Marks]**

Q3. Differentiate between various types of memory used in a computer system, such as RAM, ROM, and cache. Explain the specific roles each type plays in supporting computer operations.

[CO-3][8 Marks]

Q4. Explain in detail the functions performed by an operating system. Discuss its role in resource management, process scheduling, and providing a user interface. Illustrate how these functions contribute to system efficiency   **[CO-4][8 Marks]**

Q5. Discuss the challenges associated with multi-programming in operating systems.

[CO-4][10 Marks]