

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2023

B.Tech-I Semester (CSE/IT/ECE/CE)

COURSE CODE(CREDITS): 22BS1CI112 (3)

MAX. MARKS: 15

COURSE NAME: Fundamentals of computer hardware and networking

COURSE INSTRUCTORS: Dr. Nishant Sharma

MAX. TIME: 1 Hour

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. Using an illustrative block diagram, explain different components of a computer system.
What is memory mapped I/O and I/O mapped I/O?

[3 marks] [CO-1]

Q2. Write short note on following:

1. Serial I/O.
2. Display interface
3. 8085 microprocessor

[3 marks] [CO-2]

Q3. Explain in short about different generations of intel processors. What is hyperthreading and which of intel processor was the first processor with hyperthreading?

[3 marks] [CO-1]

Q4. What are different steps involved in boot process of a computer system? What is BIOS and what is its role in a computer system?

[3 marks] [CO-2]

Q5. What do we understand by the term "memory interfacing" and "I/O interfacing" in microprocessors?

[3 marks] [CO-1]