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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- Oct 2019

B.Tech 5<sup>th</sup> Semester

COURSE CODE: 10B11CI401

MAX. MARKS: 25

COURSE NAME: Microprocessors & Controllers

COURSE CREDITS: 4

MAX. TIME: 1.5 Hr.

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

1. What is interrupt vector table of 8086? Explain its structure. Discuss the interrupt response sequence of 8086? [CO-4,5; 5 Marks]
2. Write a program to find out the number of even and odd numbers from a given series of 16-bit hexadecimal numbers. [CO-2,3; 5 Marks]
3. Write a program to find out the product of two matrices and store the result in third matrix. [CO-2; 5 Marks]
4. Write a program to find out whether a given byte is in string or not. If it is in the string, find out the relative address of the byte from the starting location of the string. [CO-2, 3; 5 Marks]
5. Write a program that performs addition, subtraction, multiplication and division of the given operands. Perform BCD operation for addition and subtraction. [CO-2; 5 Marks]