

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS FEB 2022

B. Tech – VI Semester (ECE)

COURSE CODE:19B1WEC635

MAX. MARKS: 15

COURSE NAME: Embedded System Design

COURSE CREDITS: 3

MAX. TIME: 1 Hour

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*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated against each question in square brackets.*

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Ques 1: What are the main differences between the Microprocessors and Microcontrollers? [CO-1: 2 Marks]

Ques 2: List some 8051 microcontroller applications in embedded systems? [CO-1: 2 Marks]

Ques 3: What will be status of Carry Flag, Auxiliary Carry Flag, Overflow Flag and Parity Flag in the addition of 42H and 43H. [CO-1, 2: 2 Marks]

Ques 4: How 8051 can operate with different memories like Internal RAM, External RAM, Internal ROM and External ROM. [CO-2: 3 Marks]

Ques 5: With the help of an instruction explain indirect addressing mode of 8051. [CO-1: 2 Marks]

Ques 6: What are special function registers of 8051. Explain with the help of address range. [CO-1: 2 Marks]

Ques 7: Explain the function of Program Status Enable Pin of 8051. [CO-1: 2 Marks]