

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Feb 2020

B.Tech 6th Semester

COURSE CODE: 19B1WEC632

MAX. MARKS: 15

COURSE NAME: Embedded Systems

COURSE CREDITS: 3

MAX. TIME: 1 Hr.

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

1. Write major differences between microprocessor and microcontroller.
[CO-1; 2 Marks]
2. What are the main differences between Von-Neumann and Harvard Architecture?
[CO-1; 2 Marks]
3. With the help of three different instructions clear the contents of A register in 8051.
[CO-2; 2 Marks]
4. Write a program that will complement every bit in register R₆ of bank 0.
[CO-2; 1 Marks]
5. Write a program to swap the contents of registers R₇ and R₆ in register bank 0.
[CO-2; 2 Marks]
6. Add 1 to A register using three different instructions.
[CO-2; 2 Marks]
7. Explain architecture of 8051 with a neat diagram.
[CO-1,2; 4 Marks]