Punit Supter

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT MAKEUP EXAMINATION- 2016

B.Tech (CSE) IV Semester

COURSE CODE: 10B11CI401

MAX. MARKS: 25

COURSE NAME: Microprocessors and Controllers

COURSE CREDITS: 4

MAX. TIME: 1Hr 30 Min

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

Q1.

- a. Explain command word for programming 82C55?
- b. What is direct addressing mode in 8051?
- c. What is the difference between NVRAM and EEPROM?
- d. Explain the functioning of 74LS138 (3 to 8) decoder?
- e. Explain PLA, PAL, and GAL for memory address decoding?

O2.Design hardware and timing diagram for interfacing of the printer in Port A and Port B Strobe output mode? [5 Marks]

Q3.Design hardware and software interfacing of 4 X4 keyboard matrix interface using 82C55 microcontroller? [5 Marks]

Q4 Design memory interface for 8086 for 512 K bytes memory using 64K memory chip with separate decoders? [5 Marks]

Q5. Explain special function registers in 8051 Microcontroller?

[5 Marks]