

Total No. of Questions : 6]

SEAT No. :

P5028

[Total No. of Pages : 2

TE / Insem- 526

T.E. (Electrical)

ADVANCE MICROCONTROLLER & ITS APPLICATIONS

(Semester - I)

(2012 Pattern)

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) Answer Q.No.1, or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6 .
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full Marks.
- 4) Assume suitable data, if necessary.

Q1) a) Compare CISC and RISC [6]

b) Write a short note on Stack organization of PIC18 microcontroller [4]

OR

Q2) a) Explain any three addressing modes of PIC 18 microcontroller [6]

b) Explain the function of Program counter and File Select Register. [4]

Q3) a) Explain the instruction [6]

- i) BSF PORTD,0
- ii) MOVWF 0 × 04,0
- iii) MOVF 0 × 01,0,1

b) Write a program in assembly language to get a data from SFR of Port B and send the data to SFR of PORT C [4]

OR

Q4) a) What will be the contents of location 0 × 000 and 0 × 100 after execution of an instruction BSF 0 × 00,1,0 Assume these locations originally contained 32H and 44H Respectively [6]

b) write a short note on any two C data types for PIC 18 microcontroller.[4]

P.T.O

- Q5)** a) Explain Assembler and Compiler [4]
b) Write a program in C using Timer 0 to create a square waveform of 2 kHz on PORTB. 5 (RB5). Assume the crystal frequency to be 10 MHz Use timer 0 in 16 bit mode without a pre scalar [6]

OR

- Q6)** a) Explain T0CON register [4]
b) Write a short note on interrupt structure of PIC 18 microcontroller. [6]

