Total No. of Questions : 4]

PB35

SEAT No. : [Total No. of Pages : 2

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S.E. (Information Technology) (Insem)

PROCESSOR ARCHITECTURE

(2019 Pattern) (Semester-IV) (214451)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat alagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- *Q1*) a) Explain data memory organization of PIC18 micro controller with suitable diagram. [5]
 - b) Explain any 3 addressing modes of RIC micro controller with one example.
 - c) State features of PIC18 microcontroller.

OR

- Q2) a) With a neat diagram discuss in detail about the architecture of PIC 18 micro controller. [6]
 - b) Write short note on power down modes of PIC 18 micro controller. [5]
 - c) Differentiate between microprocessor and microcontroller. [4]

Q3) a) Draw the format of T0CON register and explain the functionality of each bit.[7]

P.T.O.

[6]

Name the SFRs associated with each J/O port of PIC18F. [8] b) What is the role of TRISx SFR? Find the value of be loaded in TRISD and TRISC register for the following: RD0,RD1, RD2, RD3 as input port RD4, RD5, RD6, RD7 as output port RC0, RC2, RC4, RC6, RC7 as output port RC1, RC3, RC5 as input port OR Explain working of PIC18F Timer 0 in 16bit mode with the help of suitable **Q4**) a) diagram. [8] Calculate the amount of time delay generated by Timer0 if b) [7] ∽TMR0H=FFh TMROL=F2 XTAL Frequency=10MHz Prescalar=1:64 And a stand a stand of the stand of the stand of the second of the secon [6268]-229 2