GANPAT UNIVERSITY

B. Tech Sem. VIIIth Biomedical & Instrumentation Engineering CBCS Regular Examination April - June 2015 2BM804 Embedded System Design

Total Marks-70 Time: 3 Hours Instructions:-1. All the questions are compulsory. 2. Answer of each section must be written in separate answer books. 3. Figure to the right indicate marks. 4. Assume data, if needed. 5. Conventional terms / notations are used. Section - I [12] Que.1 Answer the following. a). bit Microcontroller. 1) PIC is 2) IN PIC18 ROM is ____ wide. 3) PIC18F series has program memory addressing 4) Maximum number of banks PIC 18 has _ 5) The instruction "ADDWFC file reg, W" places the sum in together are SFRs 6) The general-purpose RAM and called Explain b). 3). ADDWF 12H,F 2), COMF 1). MOVLW 55H 6). DECFSZ 5). BRA 4). XORWF fileReg, d OR [12] Que.1. Discuss various features of PIC18F series microcontrollers. a). Discuss T0CON register of PIC18F. b). [11] Que.2. Give the definition of embedded system. Explain embedded system giving a). neat block diagram. Draw and discuss PIC18F452 Microcontroller DIP pin configuration b). [11] Que.2 Describe various PIC directives.

Draw and explain interfacing of LCD with PIC18 and write the

a).

b).

codes for the same

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