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Total No. of Questions: 09

B.Tech.(EIE) (2011 & Onwards E-II) (Sem.-6)
MICROCONTROLLER AND ITS APPLICATIONS

Subject Code : DE-2.4 M.Code : 58033

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a) List the priority of interrupts in 8051.
- b) What is the address of 23th bit in bit addressable area?
- c) What is the value of stack pointer in 8051 on being reset?
- d) What is the difference between polling and interrupt?
- e) Write the TMOD register.
- f) Which port of the 8051 is used as low order address bus?
- g) What are the various flags in microcontroller 8051?
- h) What is the function of the instruction SWAP?
- Define sampling in ADC?
- j) What is the function of the program counter?

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SECTION-B

- 2. Explain the interrupt execution in 8051 microcontroller
- 3. Draw and explain the timing diagram for Opcode fetch cycle.
- 4 What do you mean by the addressing mode? Explain the various addressing modes of 8051 details with the help of examples.
- Write a program to divide two numbers using successive division method. 5.
- Explain the concept of lookup table for 8051. 6.

SECTION-C

- Explain the interfacing of 8051 with DC motor 7.
- 8. Explain the architecture of the 8051 with a labeled and neat diagram.
- Jers in an asu Write a program to put ten numbers in an ascending order stored at memory location 9. 2000h.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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