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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.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. 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?
- i) Define sampling in ADC?
- j) What is the function of the program counter?



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.
- 5. Write a program to divide two numbers using successive division method.
- 6. Explain the concept of lookup table for 8051.

SECTION-C

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