

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (AIML/CE / CSE / EE / FT) (Sem.-6)
MICROPROCESSORS & MICROCONTROLLERS

Subject Code : BTEC-402-18

M.Code : 79382

Date of Examination : 22-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. 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. Write briefly :

- a) Differentiate between machine language and assembly language.
- b) Give examples of 16 bit microprocessor and microcontroller.
- c) What are the different system busses in microprocessors?
- d) Draw RISC and CISC architectures.
- e) What is the importance of cache memory?
- f) Differentiate between RAM and ROM.
- g) Enlist logical instructions in microcontroller.
- h) What do you mean by interfacing in microcontroller?
- i) What is matrix keyboard?
- j) Explain PWM.

SECTION-B

2. Explain various flag bits and PSW in 8085 with examples.
3. Write a program to find sum of series of eight bit numbers in 8085.
4. Write a program to find square of an eight bit number in 8051.
5. Write an interfacing code for external memory interfacing.
6. Explain counter programming in 8051 microcontroller.

SECTION-C

7. Explain 8051 interrupts with examples.
8. Draw and explain processing, instruction and storage & interfacing units of 8085 microprocessor.
9. Interface ADC and DAC with 8051 microcontroller.

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.