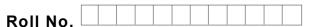
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B.Tech. (ECE) (Sem.-5) MICROPROCESSOR/MICROPROCESSOR AND ITS APPLICATION Subject Code : EC-307 M.Code : 57522

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 microprocessor and microcontroller.
 - b. What are the functions of an accumulator?
 - c. What is an operand? Explain with an example.
 - d. What is meant by Wait State?
 - e. Explain priority interrupts of 8085.
 - f. What is T-state? Explain with an example.
 - g. What is the use of ALE?
 - h. Explain the function of HOLD, READY signals with example.
 - i. What is the difference between the shifts and rotate instructions?
 - j. What is the function of PUSH and POP instruction?



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SECTION-B

- 2. What is the use of addressing modes? Explain the possible addressing modes in 8085.
- 3. Draw and explain the timing diagram of memory write cycle with example.
- 4. Explain any three modes of operations used in 8253.
- 5. What is the function of control word register in 8255? Explain with an example.
- 6. What are the features of 8259 Programmable Interrupt Controller?

SECTION-C

- 7. Describe the functional units and their functions present in BIU and EU of 8086.
- 8. Explain the output modes used in programmable keyboard/display controller (8279) with its functional diagram?
- 9. Explain the process of the Direct Memory Access (DMA) and the functions of various elements of the 8257.

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.