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KOII NO.						

Total No. of Pages : 02

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B.Tech. (ECE) (Sem.-3) MICROPROCESSOR AND ITS APPLICATION Subject Code : EC-307 Paper ID : [A0314]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. 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 :

- b. Write the control word register of 8259.c. What is ALU?
- d. What is the concept of vectored and non vectored interrupts in 8086?
- e. Explain the instruction to load and store the data in stack of 8085.
- What are the tasks of execution unit (EU) in 8086? f.
- g. Explain status flag used in 8086 in detail.
- h. What is memory segmentation?
- i. Explain any two examples of direct addressing mode instructions in 8085.
- What is timing diagram? 1.



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SECTION-B

- 2. Describe the functional block diagram of 8085 with neat diagram.
- 3. Explain the function of the following pins of 8085 :
 - a) Hold
 - b) S_0 , S_1 and IO/\overline{M}
- 4. Write down the function of following assembler directives used in assembly language programming of μp 8086 with suitable example :
 - a) DUP
 - b) EVEN
- 5. Write the various modes of 8255 and explain any two of them in detail.
- 6. Explain the importance of subroutine in programming with an example.

SECTION-C

- 7. What is 8254 IC? Explain the different mode of operation of 8254 with their neat waveforms.
- 8. Differentiate minimum and maximum mode of 8086 with neat sketch of pin diagram.
- 9. What is the main function of USART 8251? Explain the different mode of operation of 8251 with control word register.