Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(EE)/(Electrical & Electronics Engg.) (2020 Onwards) B.Tech (EE) (PT) (Sem.-5) MICROPROCESSORS Subject Code : BTEE-503 M.Code : 70556

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

Answer briefly :

- 1. How does the microprocessed differentiate between data and instruction?
- 2. Discuss the function various flags of 8085.
- 3. Define Instruction Cycle and machine cycle.
- 4. Give steps involved to fetch a byte in 8086.
- 5. What is an USART?
- 6. What is masking and why it is needed?
- 7. List the operation modes of 8255.
- 8. What are the predefined interrupts in 8086?
- 9. What is the purpose of segment registers in 8086?
- 10. What is the function of DMA address register?

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SECTION-B

- 11. With suitable examples, explain how I/O devices are connected using memory mapped I/O and peripheral I/O?
- 12. Draw the pin diagram of 8086 CPU with its control signals.
- 13. Explain the block diagram of the 8279 interface and its operations.
- 14. Write an assembly language program to find out the largest number from a given array of 8 bit numbers.
- 15. Write an assembly language program to generate an accurate time delay of 100ms.

SECTION-C

- 16. Explain the block diagram of the 8155 I/O section and timer.
- 17. What is the use of addressing modes, mention the different types of addressing modes with suitable examples?
- 18. Draw and explain the internal architecture of 8086 microprocessor. Also differentiate between minimum and maximum modes.

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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