Code: C16 EC-403

6437

BOARD DIPLOMA EXAMINATION

JUNE-2019

DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING MICROPROCESSORS FOURTH SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

PART - A $(3m \times 10 = 30m)$

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

- 1. What is the output of following of instructions:
 - (a) IN 8CH (b) OUT F8H.
- 2. Explain the following instructions.
 - (a)LDA 8050H
- (b) STA 9070H
- 3. State the importance of instruction queue.
- 4. Compare maximum and minimum mode operation.
- 5. Explain LOOPZ operation of 8086 microprocessor
- 6. Explain WAIT operation of 8086 microprocessor
- 7. What are the steps required for calling a subroutine?
- 8. Write an assembly language program to divide two 8-bit numbers?
- 9. What are the Advantages of RISC over CISC?
- 10. Write any three differences between 80386 and 80486

PART - B $(10m \times 5 = 50m)$

Note 1:Answer any five questions and each carries 10 marks

- 2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer
- 11. Draw and explain the functional block diagram of 8085.
- 12 (a) Explain the interrupt response in 8086 microprocessor

5M

(b) Explain different types of interrupts

5M

www.manaresults.co.in

Page: 1 of 2

Code: C16 EC-403

13. (a) Differentiate between 8- bit and 16- bit microprocessors 6M

- (b) State the need of memory segmentation 4M
- 14. Explain various addressing modes of 8086 microprocessor with two examples each
- 15. Explain the arithmetic instructions of 8086 microprocessor with two examples of each?
- 16. Write an assembly language program to a smallest number from an array.
- 17. (a) Distinguish between Real address mode and Protected virtual address mode in 80286?
 - (b) Explain the memory management of 80286 in detail?
- 18. Draw and explain the functional block diagram of 80386.

- xxx -