C14-CM-404/C14-IT-404

4452

BOARD DIPLOMA EXAMINATION, (C-14)

OCT / NOV-2017

DCME-FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time : 3 Hours] [Total Marks : 80

PART - A 3 x 10 = 30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define the terms Micro Processor and Micro Computer.

2. Define the terms Instruction cycle and Machine cycle.

3. List any three instruction formats of 8086.

4. List any three assembler directives.

5. Write a short note on 8086 software interrupts.

6. List the of 8086 interrupts.

7. List the advantages of Assembly Language programs.

8. List the schemes of programmed data transfer.

9. Differentiate between BSR and Parallel I/O modes of 8255.

10. What are the functional units of 80386?

PART - B

10 x 5 = 50

Instructions : (1) Answer any **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

11. a) Draw the pin diagram of 8086 microprocessor and represent each pin.

b) Explain the execution process of 8086 Assembly language program.

12. List and explain any five arithmetic instructions of 8086 with examples.

13. List and explain 8086 Addressing modes.

14. Draw the functional block diagram of 8259A and explain each block of it.

15. Write and explain an assembly language program to arrange a given series of hexadecimal bytes in ascending order with example.

16. Draw the internal block diagram of 8255 PPI and explain the function of each unit.

17. Briefly explain the Operating modes of 8257.

18. Explain the architecture of Pentium-II Processor.

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