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C16–EC–403

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BOARD DIPLOMA EXAMINATION, (C–16)

OCTOBER—2020

DECE—FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time : 3 hours] [*Total Marks* : 80

PART—A 3×10=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. What is the difference between LDA and STA instructions of 8085 microprocessor?

2. List any six features of 8085 microprocessor.

3. State the need of memory segmentation in 8086.

4. List various interrupts of 8086.

5. Draw the generalized instruction format of 8086.

6. List any three instructions which affect flags of 8086.

7. Explain Return instruction of 8086 briefly.

8. List any six assembler directives of 8086.

9. List any six features of pentium processor.

10. List any three features of RISC processors.

PART—B 10×5=50

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

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

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

11. *(a)* Draw the pin diagram of 8085. 4

(b) List different registers in 8085 and state their function. 6

12. Explain the concepts of sequential processing, parallel processing and pipelining. 10

13. Draw and explain the functional block diagram of 8086. 10

14. Explain addressing modes of 8086 with examples. 10

15. Explain any five data transfer instructions of 8086. 10

16. *(a)* Write an assembly language program of 8086 to perform addition of two 16-bit numbers. 4

(b) List assembly language development tools and explain the use of any two of them. 6

17. Explain the operating modes of 80386. 10

18. Explain the architecture of 80286 with a neat diagram. 10

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