PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

III (a) Explain different addressing modes of 8086.   10

(b) Identify the use of instruction queue in 8086.   5

OR

IV (a) Differentiate between Bus interface unit and Execution unit in 8086.   10

(b) List the different flags associated with data operations.   5

UNIT — II

V (a) Write an assembly language program to find the factorial of a number.   9

(b) Explain string instructions with examples.   6

OR

VI (a) Write an assembly language program to read a character and display it in
lower case, if it is in uppercase and vice versa.   8

(b) Write an assembly language program to find whether the number is odd or not.   7

UNIT — III

VII (a) With a neat diagram, explain 8259 controller.   10

(b) Briefly describe dedicated interrupts.   5

OR

VIII (a) Explain the control word and BSR mode of 8255.   12

(b) Define Interrupt.   3

UNIT — IV

IX (a) Explain any one mode of operation of 80386.   7

(b) Explain the features of 80386.   8

OR

X (a) Explain the superscalar architecture with an example.   9

(b) Write short notes on pipelining hazards.   6

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