

## Scheme – I

### Sample Question Paper

Program Name : Computer Engineering Program Group  
Program Code : CO/CM/CW  
Semester : Fourth  
Course Title : Microprocessors  
Marks : 70

**22415**

Time: 3 Hrs.

#### Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### Q.1) Attempt any FIVE of the following.

10 Marks

- a) State the function of ALE and Ready pin of 8086.
- b) What is the role TEST instruction in Assembly language programming?
- c) List the major steps in developing an Assembly language program.
- d) Define Procedure and write its syntax.
- e) Draw the flowchart for Multiplication of two 16 bit numbers.
- f) What is stack? state its significance.
- g) What is the use of REP in string related instruction?

#### Q.2) Attempt any THREE of the following.

12 Marks

- a) Give the difference between Inter segment and Intra segment CALL.
- b) What is pipelining? How it improves the processing speed?
- c) State the Assembler Directives used in 8086 programming and describe the function of any two.
- d) Draw the Machine language instruction format for Register to Register transfer and state the function of each bit.

#### Q.3) Attempt any THREE of the following.

12 Marks

- a) Describe Memory segmentation in 8086 and list its advantages.
- b) Write an ALP to perform 32 bit by 16-bit division of unsigned numbers.
- c) Write an ALP to count number of '1' in 16-bit number.
- d) Compare Procedure and macro based on i) length of code ii) generation of object code iii) Calling method iv) Passing parameter.

# Microprocessor Question Papers

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