

## 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.

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#### 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

**SB Merriam**



## **Microprocessor Question Papers:**

## **Microprocessor Question Papers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Microprocessor Question Papers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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