Question Bank (I scheme)

Name of subject: MICROPROCESSOR **Unit Test :II**
Subject code: 22415 **Course : CM**
Semester: IV

CHAPTER 3: Instruction Set of 8086 Microprocessor (CO3) (16 Marks)

2 Marks

1 What is the use of REP in string related instruction?

2 With examples, describe any two String instructions in 8086 assembly language.

3 Describe any two Rotate instructions with example.

4 List any four Bit manipulation instructions of 8086.

4 Marks

1 Select the instruction for each of the following
i)Rotate register BH left 4 times.
ii)Multiply AL by 08H.
iii)Signed division of BL and AL
iv)Rotate BX to left 4 times through carry.

2 Describe the function of following instructions: AAA, CMP, ADC and JC.

3 Explain DAA and DAS instruction.

4 List and explain any four process control instruction with their functions.

CHAPTER 4 : Assembly Language Programming (CO4) (20 Marks)

2 Marks

1 Draw the flowchart for Multiplication of two 16 bit numbers.

2 Write an ALP to count number of '1' in 16-bit number.

3 Write an ALP for finding length of two strings.

4 Write an ALP for 16-bit subtraction.

4 Marks

1 Write an ALP to perform 32 bit by 16-bit division of unsigned numbers.

2 Write an ALP to find the smallest number in the Array.

3 Write an ALP to count the number of positive and negative numbers in array.

4 Write an ALP to perform block transfer without using string instruction.

CHAPTER 5 : Procedure and Micro (CO5) (12 Marks)

2 Marks

1 Define Procedure and write its syntax.

2 Compare Procedure and macro based on
i) length of code ii) generation of object code

3 Define Macro.

4 State the advantages and disadvantages of using Procedure.

5 What is the difference between Near and Far Procedure?

6 What do you mean by Recursive procedure?

4 Marks

1 Give the difference between Inter segment and Intra segment CALL.

2 Compare PROCEDURE and MACRO.

3 Write an ALP for sum of series of 10 no. using PROCEDURE.

4 Write an ALP using MACRO to perform following operations

X=(A+B)*(C+D)

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