

Question Bank (G scheme)

Name of subject: MICROPROCESSOR AND PROGRAMMING

Unit Test: II

Subject code: 17431

Course: CM4G

Semester: IV

Chapter 3: Instruction Set of 8086 Microprocessor (10 marks)	
Q NO:	3marks QUESTIONS
1.	Explain any three rotation instruction.
2.	Explain CALL instruction.
3.	Explain any three flag manipulation instruction.
4.	Explain any three processor instruction.
	4marks QUESTIONS
5.	List any four stack related instructions of 8086 microprocessor and explain any two instruction.
6.	State any 4 string instruction and write one example for each instruction. Write operation of these instructions.
7.	Distinguish the following instruction (any two points) I) AAA and DAA II) AND and DAA
8.	Explain the following instructions I) AAM II) AAA III) TEST IV)XCHG
Chapter 4: :The Art of Assembly Language Programming (8 marks)	
	3 marks QUESTIONS
9.	1. Describe the function of following tools I) Editor II) Assembler III) Linker
10.	State the steps involved in program development.

11.	What are the assembler directives? Explain the following directives. I) ASSUME II) EVEN III) PTR IV)SEGMENT
12.	Describe following directives: i)DD ii)DW iii)ENDS
	4 marks
13	What are the assembler directives? Explain the following directives .I) ASSUME II) EVEN III) PTR IV)SEGMENT
Chapter 5 : 8086 Assembly Language Programming (24 marks)	
	3marks QUESTIONS
14.	Write an ALP to multiply two 16 bit binary numbers.
15.	Write an ALP to divide two 16 bit unsigned numbers.
16	Write algorithm, flowchart for 8086 to transfer a block of data from one location to other.
17	Write ALP to perform addition of two BCD numbers.
18	Write an ALP to count numbers of 1's in DL register.
19	Write an ALP to find length of string.
	4marks QUESTIONS
20	Draw the flowchart and write an ALP to find smallest number of given block of data.
21	Write an ALP to find largest number to ten numbers.
Chapter6: Procedure and Macro in Assembly Language Program (16 marks)	
	3 marks questions
22.	What is procedure? What are the advantages of using procedure in our program?
23	Define macro with example.

	4 marks questions
24	Write a ALP to find factorial of a number using procedure.
25.	Using MACRO, write ALP to solve $P = X^2 + Y^2$ where X and Y are 8 bit numbers.