**Question Bank for MAP**

1. State the function of following assembly language programming tools Editor b) Assembler c). Linker d) Debugger
2. List any four assembler directives & state their significance.
3. Differentiate between NEAR and FAR CALLs (4points)
4. State two instruction each for addition & substraction.
5. Give evolution of Microprocessoer.
6. List all the 16 bit general purpose registers of 8086 microprocessor
7. Draw the symbols used in a flowchart while developing ALP. Mention the use of each symbol (Any 4)
8. State the functions of the following pins of 8085 microprocessor 1) ALE 2) IO/M
9. State the use of AF and SF flags in 8086.
10. What will be the contents of register BL after the last instruction execution?

 MOV BL, 14H

 MOV CL, 03H

 ADD AL,BL

1. Draw the flag register format of 8085 microprocessor and explain all the

 flags.

1. What is QUEUE? How does speed up to the processing of the 8086.
2. List the steps in physical address generation in 8086 microprocessor. Calculate the physical

 address for the given CS = 4370 , IP =56

1. Write assembly language program for multiplication of two 16-bit number.
2. List and explain any 4 Processor control instruction of 8086 microprocessor
3. Draw the diagram of octal latch and explain it.
4. State the functions for the following pins of 8086

 1 NMI 2 HOLD 3.QS0 4 INTR

1. Write ALP to Divide 2 numbers (16/8).
2. Define Macros & explain the directives used in macros.
3. Write assembly language program to multiply two 8 bit numbers.
4. Identify the addressing modes for the following instructions:

 1) MOV AX,[BX]

 2) MOV DX,40[BX][DI]

 3) SBB AX , 30[BP]

 4) MOV BL , 56H

23. Write the appropriate 8086 instructions to perform the following operations:

 1) Multiply AL register contents by 4 using shift instruction

 2) Move 1234H into DX register.

24. Explain MUL and IDIV instructions.

25. Describe reentrant procedure with the help of schematic diagram

26. Write an Assembly Language program for BCD to Hex Conversion.

27. Draw a neat labeled pin diagram of 8086. Explain the functions of minimum

 mode pins of 8086.

28. Draw the functional block diagram of 8086. And Explain in detail.

29. Draw the timing diagram of minimum mode memory write cycle. Also explain

 the same.

30. How many times LOOP1 will be executed in the following program? What

 will be the

 contents of BL after the execution?

 MOV BL, 00H

 MOV CL, 05H

 LOOP1: ADD BL, 02H

 DEC CL

 JNZ LOOP1

31. Write assembly language program to find the smallest/ largest number

32. Write an Assembly Language program to multiplication of two BCD numbers.

33. Explain the following instructions of 8086

 1) CMP 2) DAA.

34. Differentiate between 8085 and 8086. (Any 4 points)

35. Explain the following instructions with one example each.

1. ADD 2) LEA 3) INC 4) XCHG

36 Describe the segmentation in 8086. List 4 advantages of segmentation.

37. Describe the function of SID & SOD pin.

38. State the functions of the following pins of 8085 microprocessor

 1) ALE 2) IO/M

39. State the use of AF and SF flags in 8086

40. List any two addressing modes of 8086 with one example each

41. Give the syntax for defining procedure

42. Write an Assembly Language program to arrange 16-bit number in assending

 order. Draw flow chart and write result.

43. Write a procedure to find a factorial of a number.

44. Write an ALP to transfer a block of 10 data bytes using string instructions.

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