

QUESTION BANK UT-2**Chp 3:**

1. List any four instructions from the Bit manipulation instructions of 8086. (S-19) (2M)
2. State the use of REP in string related instructions. (S-19) (2M)
3. Write classification of instruction set of 8086. Explain any one type out of them. (S-19) (4M)
4. Select an appropriate instruction for each of the following & write : (S-19) (6M)
 - (i) Rotate the contents of Dx to write 2 times without carry.
 - (ii) Multiply contents of Ax by 06H.
 - (iii) Load 4000 H in SP register.
 - (iv) Copy the contents of Bx register to CS.
 - (v) Signed division of BL and AL.
 - (vi) Rotate Ax register to right through carry 3 times.
5. Illustrate the use of any three Branching instructions. (S-19) (6M)
6. What is role of XCHG instruction in assembly language program ? Give example. (W-19) (2M)
7. State the use of STC and CMC instructions of 8086. (W-19) (2M)
8. Explain logical instructions of 8086. (Any Four) (W-19) (4M)
9. Select assembly language for each of the following : (W-19) (6M)
 - (i) Rotate register BL right 4 times.
 - (ii) Multiply AL by 04 H
 - (iii) Signed division of AX by BL.
 - (iv) Move 2000 H in BX register.
 - (v) Increment the content of AX by 1.
 - (vi) Compare AX with BX.
10. State any two difference between TEST and AND instructions. (S-22) (2M)
11. State the use of DAA instruction in BCD addition. (S-22) (2M)
12. Describe DAS instruction with suitable example. (S-22) (4M)
13. Write an instruction to perform following operations : (S-22) (6M)
 - (i) Multiply BL by 88H
 - (ii) Signed division of AL by BL
 - (iii) Move 4000H to DS register
 - (iv) Rotate content of AX register to left 4 times.
 - (v) Shift the content of BX register to right 3 times.
 - (vi) Load SS with FF00H.

Chp 4:

1. Write on ALP to count the number of positive and negative numbers in array. (S-19) (4M)
2. Write ALP to find the sum of series. Assume series of 10 numbers. (S-19) (4M)
3. Write an ALP to count ODD and EVEN numbers in array. (S-19) (4M)
4. Write an ALP to perform block transfer operation of 10 numbers. (S-19) (4M)
5. Write an ALP using procedure to solve equation such as $Z = (A + B) * (C + D)$ (S-19) (4M)
6. Write an ALP using macro to perform multiplication of two 8 bit unsigned numbers. (S-19) (4M)
7. Write an ALP to arrange numbers in array in descending order. (S-19) (6M)
8. Draw flowchart for multiplication of two 16 bit numbers. (W-19) (2M)

9. Write an ALP to find length of string (W-19) (4M)
10. Write an ALP to count no. of 0's in 16 bit number (W-19) (4M)
11. Write an ALP to find largest number in array of elements 10 H, 24 H, 02 H, 05 H, 17 H. (W-19) (4M)
12. Write an ALP for addition of series of 8-bit number using procedure. (W-19) (4M)
13. Write an ALP to reverse a string. Also draw flowchart for same. (W-19) (6M)
14. Write an ALP to count odd numbers in the array of 10 numbers. (S-22) (4M)
15. Write a MACRO to perform 32 bit by 16 bit division of unsigned numbers. (S-22) (4M)
16. Write an ALP to find largest number in the array. (S-22) (4M)
17. Write an ALP to count number of '0' in 8 bit number. (S-22) (4M)
18. Write an ALP to subtract two BCD number using procedure. (S-22) (4M)
19. Write an ALP to concatenate two strings. (S-22) (6M)

Chp 5:

20. Define Macro & Procedure. (S-19) (2M)
21. Compare Procedure and Macros. (S-19) (4M)
22. With the neat sketches demonstrate the use of re-entrant and recursive procedure. (S-19) (W-19) (S-22) (4M)
23. Define Macro. Give syntax. (W-19) (2M)
24. Give the difference between intersegment and intrasegment CALL (W-19) (4M)
25. Write an assembly language program to solve $p = x^2 + y^2$ using macro. (W-19) (4M)
26. Write 2 difference between near & far procedure (S-22) (2M)
27. Describe the directives used to define the procedure with suitable example. (S-22) (4M)