

UNIT - 2

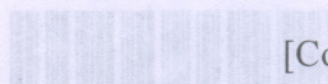
- Q2 (a) Solve the following:- 8x1=8
- (i) $(110010)_2 = (?)_{10}$ (ii) $(11101101.10101)_2 = (?)_8$
- (iii) $(5999)_{10} = (?)_2$ (iv) $(336.36)_{10} = (?)_8$
- (v) $(493.69)_{10} = (?)_{16}$ (vi) $(145A.3D7)_{16} = (?)_8$
- (vii) $(.265)_8 = (?)_{10}$ (viii) $(110111111101)_2 = (?)_{16}$
- (b) Explain EBCDIC and BCD. 8

OR

- Q2 (a) Solve the following :- 4x2=8
- (i) $(110101)_2 + (101010)_2 + (101111)_2$
- (ii) $(273)_8 + (111000111)_2$
- (iii) Multiply 10110 With 1101
- (iv) Dividing 100011 by 101
- (b) Explain the following :- 2x4=8
- (i) Fixed point number and floating point number.
- (ii) Parity bit.

UNIT - 3

- Q3 (a) Explain the following :- 4x2=8
- (i) Multiprocessing (ii) Multi programming
- (iii) Structured programming (iv) Procedural programming.
- (b) Draw the flow chart and write algorithm to find out largest number in a given list of 10 number. 8



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OR

- Q3 (a) Write short notes on- 4x2=8
- (i) Operating system
 - (ii) Compiler
 - (iii) Interpreter
 - (iv) Assembler
- (b) Draw the flow chart and write algorithm for calculating factorial of the given number. 8

UNIT - 4

- Q4 (a) Explain the following :- 2x4=8
- (i) Storage classes in C
 - (ii) Local and Global variables in C.
- (b) Write a program in C to take input through keyboard and print this string in reverse order as per word:
- e.g. you are so good → good so are you. 8

OR

- Q4 (a) What are the data types? Explain with example the data types used in C language. 8
- (b) Write a program to check and remove duplicate elements in the array. 8

UNIT - 5

- Q5 (a) Write program to read a text file and convert all lower case characters to upper case and write in another file. 8
- (b) Explain the following with example:- 2x4=8
- (i) Structure
 - (ii) Union



OR

- Q5 (a) Explain the following with example:- $2 \times 4 = 8$
- (i) Passing methods of function arguments
 - (ii) Recursion
- (b) Write a program in C- language to add, subtract and multipli complex number using structure. 8

