

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting atleast one question from each Unit.

x-x-x

I. Attempt the following:-

- a) Which of the following is not a number system in computers
 - i) Binary
 - ii) Decimal
 - iii) Hexagon
 - iv) Octal
- b) _____, _____ and _____ are popular keywords used in C language.
- c) List major file operations.
- d) What is the role of library functions?
- e) Convert $(56323.14)_{10} = (\text{_____})_2$
- f) What are infinite loops?
- g) Define pointer array.
- h) What is super computer? (8x1½)

UNIT - I

- II. Explain its block structure of computer highlighting the major functional components with example. Write a note on various character codes available in Number system for storing data in computer. (12)
- III. Discuss various types of operators available in C language? Write a sample code to check whether the given number is odd or even. (12)

UNIT - II

- IV. Discuss various decision making statements available in C Language with suitable example, Write the algorithm for finding the largest element in the given one dimensional array. (12)

P.T.O.

(2)

- V. Differentiate between structures and functions. Explain the concept of recursive C function with the help of suitable sample code. (12)

UNIT - III

- VI. How pointer is initialized and assigned. Explain the concept of pointer arithmetic with the help of suitable example. (12)
- VII. Discuss the file handling in C language elaborating read and write operations in text and data files. (12)

x-x-x