

Problem Solving Using C-103

Sem-I

Time -: 3hrs.

M.M.- 70

Note : The candidates are required to attempt two questions each from Section A & B. Section C will be compulsory

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ti**Section-A**

1. What are the different types of errors that can occur in a computer program? Give an example of each to illustrate their nature. 10
2. Explain the structure of C program with the help of an example. 10
3. Describe different forms of if-else statement. How ternary operator can be used in place of if-else? Give example. 10
4. How functions are declared in C language? What are various categories into which functions are classified? What are advantages of functions? 10

Section-B

5. a) Define array. What are the advantages of using arrays in a program? 5
- b) Explain various rules for initialising arrays. 5
6. What do you understand by pointer variable? Explain the use of '&' and '*' operators with example. 10
7. a) How a structure variable is declared and initialized? 5
- b) Is it possible to initialize an array of structure? Explain. 5
8. Explain how you create, write, read, and close a text file in C language with suitable example. 10

Section-C

9. a) What is data type?
- b) How comments are written in C program?
- c) What is the use of 'typedef' keyword?
- d) What is operator precedence?
- e) Define library functions.
- f) What is the use of 'static' storage class?
- g) How linear search different from binary search?
- h) How arrays are passed to a function?
- i) Write difference between structure and union.
- j) Write the use of ftell() and fseek() functions.

3x10=30