

SECTION - B

- V. Discuss the features of different storage classes available in 'C' language. 15
- VI. Write a program to read a character string and then find the frequency of each alphabet in the string. 15
- VII. Define and distinguish between arrays and pointers. 15
- VIII. Write the procedure of creating, opening, reading and writing with files in 'C' language. 15

SECTION - C

IX. Attempt all the following questions :

- (a) Define problem solving. 3
- (b) Distinguish between operator precedence and associativity. 3
- (c) Distinguish between formal and actual parameters. 3
- (d) How two-dimensional arrays are initialized at the time of declaration ? 3
- (e) Distinguish between structure and union. 3

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PROGRAMMING FUNDAMENTALS USING 'C' - 114

(Semester - I)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *two* questions each from Section A and B and the entire Section C.

SECTION - A

- I. Write short notes on the following : (a) Algorithm. (b) Flow chart. (c) Coding. 15
- II. What are the different data types available in 'C' language ? Discuss in detail the characteristics of each data type. 15
- III. Define and distinguish between the following : (a) for and while loops. (b) if and switch constructs. (c) break and continue statements. 3×5=15
- IV. Define recursion. Write a recursive function for calculating factorial of a positive integer. 15

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[P.T.O.]

VI. Write a program to count number of vowels in a string of characters. 15

VII. Define and distinguish between structure and union. 15

VIII. How files are used in C? Explain giving example. 15

SECTION-C
(Compulsory Question)

IX. (a) Distinguish between variable and constant. 3

(b) How parameter passing by address is implemented? 3

(c) Distinguish between formal and actual parameters. 3

(d) What is the purpose of static storage class? 3

(e) What is the difference between text and binary files? 3

(a) Identifier and name rules.

(b) Data types.

(c) Type conversion.

III. What are the different iterative control structures in C? Give example of each. 15

IV. Distinguish between library and user defined functions? Write a function for finding factorial of a number. 15

V. Write a program, using array, for finding 2nd largest and 2nd smallest numbers from n numbers. 15

SECTION-B

SECTION-B

V. Write a program, using array, for finding 2nd largest and 2nd smallest numbers from n numbers. 15

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PROGRAMMING FUNDAMENTALS USING C-114

(Semester-I)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all. Select *two* questions each from Section A and B. Section C is compulsory.

SECTION-A

I. Define flowchart. Draw a flowchart for checking whether a given number is a prime number or not. 15

II. Write short notes on the following:

(a) Identifier and name rules.

(b) Data types.

(c) Type conversion.

5×3=15

III. What are the different iterative control structures in C? Give example of each. 15

IV. Distinguish between library and user defined functions? Write a function for finding factorial of a number. 15

SECTION-B

V. Write a program, using array, for finding 2nd largest and 2nd smallest numbers from n numbers. 15

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[P.T.O.]