2186

October 2024

Time – Three hours
(Maximum Marks: 100)

[N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.

2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. State the functions of compiler.

2. What are high level programming languages?

3. Mention any three arithmetic operators.

4. Write the format of simple if statement.

5. Differentiate one dimensional array and two dimensional array.

6. Define string. Give an example.

7. State any three advantages of union.

8. What is meant by arrays of structures?

9. What is call by value?

10. What is user defined function?

PART – B

11. (a) Discuss about the formatted I/O statements used in C.

(Or)

(b) Explain about the algorithm and flowchart with an example.

12. (a) Discuss about relational, logical and bitwise operators of C.

(Or)

(b) (i) Write a C program to find sum of series using "while" loop.(10)

(ii) Compare while and do-while statements. (4)

13. (a) Write a C program for matrix addition using array.

(Or)

(b) Discuss about the various string handling functions with examples.

14. (a) Write a C program to prepare the total marks for N students by reading the Name, Register No, Marks1 to Marks5 using array of structure.

(Or)

(b) (i) Explain the declaration and initialization of union with an example.(7)

(ii) Compare union and structure.(7)

15. (a) Discuss about file opening, writing, reading and closing in C with example program.

(Or)

(b) Write a C program to find the factorial of given N numbers using function.

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