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First Semester B.Sc./B.C.A. Degree Examination, August 2021

Career Related First Degree Programme under CBCSS

Computer Science/Computer Applications

Core Course CS 1141/CP 1141 : INTRODUCTION TO PROGRAMMING

(2020 Admission Regular)

Time : 3 Hours

Max. Marks : 80

SECTION – A (Very short answer type)

One word to maximum of **two** sentence. Answer **all** questions.

1. Define algorithm.

2. What is an object code?

3. What is the storage capacity of integer data type?

4. Which are simple I/O statements?

5. What is an exit control loop?

6. Define pointer array.

7. What is recursion?

8. What do * and & operator mean?

9. What are the steps to write a function in a program?

10. What is format specifier?

(10 × 1 = 10 Marks)

SECTION – B (Short Answer)

Not to exceed **one** paragraph, answer any **eight** questions. **Each** question carries **2** marks.

11. Classify the different types of decision making statements.

12. Why do we use header files?

13. Write and explain Syntax of a function definition.

14. Define pointer. How can we declare it?

15. Display string "corona" in reverse order.

16. Define structure. How to initialize a structure?

17. What are different file operations?

18. Write a C program to swap two numbers using function.

19. Give the general syntax of conditional operator with example.

20. Explain escape sequence character in C.

21. What is multidimensional array?

22. Explain macros.

23. Write a program to find the sum of first n natural numbers.

24. What do you mean by identifiers and literals?

25. Explain break and continue statement.

26. What is meant by dynamic memory allocation?

(8 × 2 = 16 Marks)

L – 3932

SECTION – C (Short Essay)

Not to exceed **120** words, answer any **six** questions. **Each** question carries **4 marks**.

27. Explain the structure of a C program.

28. What are storage classes? Explain.

29. Write the algorithm, flowchart and the C program to find the largest among three numbers.

30. Explain with example about a function with return type and arguments.

31. Explain the following with example.

    (a) fprintf

    (b) printf

    (c) fscanf

    (d) scanf

32. Write a C program to print the Fibonacci series using recursion.

33. Write a short note on precedence of operators and order of evaluation of expressions.

34. Explain symbolic constants used in C.

35. Write a C program to read and print the array of elements using pointers.

36. Explain the difference between post increment and pre increment operators with example.

37. Explain nested for loop with example.

38. Write a C program to find the transpose of a matrix.

(6 × 4 = 24 Marks)

L – 3932

SECTION – D (Long Essay)

Answer any **two** questions. **Each** question carries **15** marks.

39. What is array? Write a Program to read n numbers into an array and find the

    (a) Sum of odd numbers

    (b) Sum of even numbers

    (c) Average of all numbers

40. What are different data types in C? Explain in detail with example.

41. (a) Write and explain about switch statement.

    (b) Write a program to perform arithmetic operation using switch.

42. Distinguish between the following. With example:

    (a) Actual and formal arguments

    (b) Global and local variables

    (c) Call by value call by reference

43. Define 'union'. Give the syntax. List out the difference between union, structure and arrays with example.

44. (a) Write a program to display the contents of the file in reverse order.

    (b) Write a program to copy the contents from one file to another file.

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(2 × 15 = 30 Marks)

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