Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Write a note on character set of C.

2. List the logical operators in C.

3. Write a note on Sqrt( ) function.

4. What is the use of printf( ) function? Give an example.

5. What is the purpose of a Switch statement?

6. List down any two uses of functions.

7. What is Recursion?

8. How to initialize the values in an Array? Give an example.

9. Define : Structures.

10. What are the bitwise operators in C?

11. List down any two advantages of pointers.

12. Define : Sequential file.

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PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. What are the basic data types in C? Explain them with examples.

14. Explain about various expressions in C with examples.

15. Write a C program to find the biggest number among three given numbers.

16. Explain the usage of following statements with examples.

   (a) while

   (b) break

17. Write a C program to find the arithmetic mean of n values using a function.

18. Discuss briefly about passing Arrays to functions with examples.

19. Explain about arrays of pointers with an example.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain about various data input and output functions with suitable examples.

21. Write a C program to find the sum of the digits of any given positive integer. (eg. when n = 345, then sum of digits 3 + 4 + 5 = 12).

22. Describe in detail various storage classes in C with examples.

23. Write a C program to perform addition of two matrices.

24. Explain about creation and processing of files in C.

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