

2 MJ 60503

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, APRIL/MAY 2024.

SECOND SEMESTER

Computer Science

PROBLEM SOLVING USING C

(w.e.f. 2023 – 2024 Admitted Batch)

Time : Three hours

Maximum : 70 marks

(No additional sheet will be supplied)

PART A — (5 × 4 = 20 marks)

Answer any FIVE of the following.

1. Explain flowchart with example.
2. What is the characteristic of an algorithm?
3. Explain nested if with examples.
4. What are the unconditional jump statements in C?
5. What are the differences between an array and string?
6. Explain any four-character functions in C.
7. What is function? Explain how the functions are defined and accessed?
8. Write about Scope of Variables
9. What is pointer structure in C?
10. Write a short note on nested structure.

PART B — (5 × 10 = 50 marks)

Answer ALL of the following.

11. Define Data type? Explain different Data types in C language.

Or

12. What is Operator? List out the various types of operators used in C.
13. Distinguish between Do-While and While Loop.

Or

14. What is break statement? Discuss with example. How the break statement is different from continue statement?

15. What is an array? Explain two-dimension array with example.

Or

16. Explain string manipulation library functions with their syntaxes.

17. Define Recursion? How recursion will be implemented? Explain with an example.

Or

18. Explain the Pointers and Arrays with example.

19. Discuss about Dynamic Memory Allocation in details.

Or

20. What is union? Mention its advantages.
