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Reg. No:

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Computer Science Degree Examination, April 2023

BCS2B02 - Problem Solving Using C Language

(2022 Admission onwards)

Time: 2 hours

Max. Marks: 60

PART A

Questions 1 to 12. Each question carries two marks. Ceiling 20 marks.

- 1. What is data type? List any four data types in C.
- 2. Define macro function in C
- 3. What is recursion?
- 4. Define pointers in C.
- 5. Differentiate scope and lifetime of a variable.
- 6. What is Bit field?
- 7. Explain pre-processor directives.
- 8. What is pointer expression? Give example.
- 9. What are command line arguments in C?
- 10. Write the syntax of a function prototype.
- 11. Explain the conditional operator.
- 12. Write a C program to check the given number is even or odd.

PART B

Questions 13 to 19. Each question carries five marks. Ceiling 30 marks.

- 13. Write a note on dynamic memory allocation in C program.
- 14. What is an array? Explain different types of arrays with example.
- 15. Write a C program to read n number of values in an array and display them in reverse order.
- 16. Differentiate Structure and Union.
- 17. List and explain different file manipulation functions in C.
- 18. Briefly explain different jump statements in C.
- 19. Write a C program to check whether a character is an alphabet, digit or special character.

PART C

Questions 20 to 21. Answer any one question. Each question carries ten marks.

- 20. What are the different categories of functions in C Programming? Explain with example.
- 21. Explain different looping statement in C language with suitable example.

(1x10=10 Marks)