1B2A24034

Pages	:	2)	
-------	---	----	--

A PROPERTY.	***																						
Reg.	N	0:.	•	•	•	•	•		•	•	•	•	٠	•	٠		•	•	•	•	٠	٠	

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Computer Science Degree Examination, April 2024

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 the use of #include statement?
- 2. What is meant by multi dimensional array?
- 3. Differentiate between entry and exit controlled loops.
- 4. What is the use of fseek() and ftell() functions in C?
- 5. What do you mean by preprocessor directive? Give an example.
- 6. How goto statement can be used to form a loop?
- 7. What is a pointer?
- 8. What do you mean by function prototype?
- 9. What is meant by dynamic memory allocation?
- 10. How strings are represented in C?
- 11. What is meant by scope of a variable?
 - 12. Define Union.

PART B

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

- 13. Briefly explain the purpose of break and continue with example.
- 14. Write a program to read roll number, name and 3 marks of 5 students and print the total marks of each student with the entered details. Use structure.
- 15. Write a program to sort n numbers in descending order.
- 16. Differentiate between array of structures and array within a structure with example.
- 17. Briefly explain the various string handling functions with example.
- 18. Explain macros with arguments. Give an example
- 19. Write a program to find the factorial of a number using recursion

PART C

Question 20 and 21. Answer any one question. Each question carries ten Marks.

- 20. Explain various branching and looping statements in C with syntax and example.
- 21. What is a function? What are the different types? What are the advantages of using functions in our program? What are the various argument passing mechanisms? Illustrate with example.

(1x10=10 Marks)