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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE  
Second Semester B.Sc Degree Examination, March/April 2020  
BCS2B02 – Problem Solving Using C Language  
(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

**PART A**

**Questions 1 to 12. Each question carries two Mark. Ceiling 20 Marks**

1. What are the programming elements used for decision making in C?
2. What are different types of Arrays?
3. Write any two examples for string manipulation functions. Give syntax too.
4. What do you understand by pointers?
5. What is dynamic memory allocation?
6. What is the importance of file?
7. What are conditional operators?
8. What is the use of *goto* statement? Explain.
9. What is the use of *return* statement?
10. Define the term scope of a variable?
11. What are the functions used for dynamic memory allocation?
12. What do you understand by modularization?

**PART B**

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

13. Compare and contrast entry controlled and exit controlled loops in C.
14. Write a C program to print first  $n$  odd numbers.
15. How will you define a function in C? Explain with a suitable example.
16. Compare and contrast structure and union.
17. What are command line arguments? Write a program to copy a file using command line arguments.
18. What is recursion? Write a program to print the sum of  $n$  numbers using recursion.
19. What are pre-processor directives? Illustrate its use.

**PART C**

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

20. What are the different file operation modes? Explain with examples.
21. Write a C program to read and find sum of two matrices. Use function.

(1x10=10 Marks)