



# DON BOSCO COLLEGE

(Affiliated to the University of Calicut)

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## SECOND INTERNAL EXAMINATION MARCH 2019

### SECOND SEMESTER BCA

### BCA2B02: PROBLEM SOLVING USING C

**Time: 3 hours**

**Max. Marks: 80**

#### *Part – A*

*Answer All Questions*

*Each Carries 1 Mark*

1. A runtime error is called \_\_\_\_\_
2. True or False: Only one main function allowed in a program.
3. An \_\_\_\_\_ controlled loop executes at least once.
4. The operator “&” is used for \_\_\_\_\_
5. The size of a float variable in c is \_\_\_\_\_
6. \_\_\_\_\_ converts c programs into machine language.
7. What function is used to release allocated memory that is no longer needed?
8. Define algorithm.
9. What is malloc() function.
10. Increment operator is called \_\_\_\_\_ operator

**(10 \* 1 = 10 marks)**

#### *Part - B*

*Answer all questions.*

*Each question carries 3 marks.*

11. What are identifiers. Give examples
12. What are the different types of C statements
13. Mention the fundamental datatypes in C.
14. List the different logical operators in C.
15. How are comments mentioned in a C program

**(5 \* 3 = 15 marks)**



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## ***Part -C***

*Answer any five questions.*

*Each question carries 5 marks.*

16. Explain different data types in C.
17. Explain switch statement with example.
18. Explain recursion with example.
19. Explain different conditional statement with syntax and example.
20. Explain the use and syntax of nested loops.
21. Write a program to find the largest of five numbers.

**(5 \* 5 = 25 marks)**

## ***Part-D***

*Answer any three questions.*

*Each question carries 10 marks.*

22. Explain about the different types of statements in C with example.
23. Explain about the single dimensional and two dimensional arrays in C with example.
24. What are the tokens in C? Explain.
25. What are do-while, while and for loops? Explain with appropriate examples

**(3\*10 = 30 marks)**

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