



K21U 6788

Reg. No. :

Name :

I Semester B.Sc. Degree (C.B.C.S.S.–O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2021
(2019 Admission Onwards)

CORE COURSE IN COMPUTER SCIENCE
1B01CSC : Introduction to C Programming

Time : 3 Hours

Max. Marks : 40

PART – A (Short Answer)

Answer **all** questions.

(6×1=6)

1. What is an Algorithm ?
2. Give the syntax to define a constant "PI" to assign it a value 3.14.
3. What are keyword in C ?
4. List bitwise operators in C.
5. Explain the importance of C language.
6. What are decision-making statements in C ?

PART – B (Short Essay)

Answer **any 6** questions :

(6×2=12)

7. Write a program to check whether a number is positive, negative or zero.
8. Differentiate between variables and constants.
9. Draw a flowchart to convert temperature in Fahrenheit to Celsius using the formula $C = \frac{F - 32}{1.8}$.
10. What is format specifier ?
11. Explain sizeof() with suitable example.

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12. Why do you need comments in a programming language ?
13. Explain various conditional operator in C.
14. Differentiate between break and continue statements in C.

PART – C (Essay)

Answer **any 4** questions.

(4×3=12)

15. Write an algorithm to display the sum of n natural numbers.
16. Write short notes on any two looping constructs in C.
17. Write a program to read the length and breadth of a rectangle to calculate its area and perimeter.
18. Explain getchar() and putchar() with syntax and example.
19. Discuss primary data types in C.
20. Illustrate switch statement with syntax and example.

PART – D (Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain basic structure of a C program.
 22. Briefly explain different forms of if statements with syntax and example.
 23. Explain arithmetic and relational operators in C.
 24. Write short notes on :
 - a) Nested functions.
 - b) Call by reference.
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