

C 81771

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Name.....

Reg. No.....

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2020

Computer Science

BCS 2B 02—PROBLEM SOLVING USING C

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. What are C tokens ?
2. Define Symbolic constants.
3. What are conditional operators ?
4. What will be the value of 'C' for the assignment statement ?
 $c += (a > 0 \ \&\& \ a < 10) ? ++a : a/b$: for values $a = 1$, $b = 2$, and $c = 3$?
5. What are formatted input and output statements ?
6. Give the syntax of switch statement.
7. How one dimensional array is declared ?
8. What are automatic variables ?
9. Which are the elements to be included while declaring a structure variable ?
10. Give an example to show the initialization of a pointer variable.

(10 × 1 = 10 marks)

Part B

Answer all five questions.

Each question carries 3 marks.

11. What are the steps involved in executing a C program ?
12. Which are the different types of special operators?
13. Distinguish between main() and void main().
14. Explain the concept of modularization.
15. Explain the opening of a file.

(5 × 3 = 15 marks)

Turn over

Part C

*Answer any five questions.
Each question carries 5 marks.*

16. Explain the different types of constants available in C.
17. How do variables and symbolic names differ ?
18. Write a program to find the average of n numbers.
19. Explain how operator precedence and associativity rules are applied.
20. Explain how goto statement is used for unconditional branching.
21. Write a program to find the roots of a quadratic equation.
22. Write a program to find the biggest of three numbers using nested if..else statement.
23. Explain entry controlled loop and exit controlled loop with flowchart and example.

(5 × 5 = 25 marks)

Part D

*Answer any three questions.
Each question carries 10 marks.*

24. What are operators ? Explain different types of operators in C.
25. Explain the general form of switch statement. Write a program to find the grade of student using switch statement.
26. Explain how string variables are declared and initialized ? Write a program to find whether the inputting string is a palindrome or not.
27. Explain with an example how pointers are used with functions and structures ?
28. Explain the variable storage classes most relevant to function with examples.

(3 × 10 = 30 marks)

