Reg. No :................................

Name :.................................

BCA DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
(2022 Admissions (regular) 2021 Admissions (Improvement / Supplementary), 2020, 2019, 2018, Admissions Supplementary)
SEMESTER I - CORE COURSE (CLOUD TECHNOLOGY AND INFORMATION SECURITY MANAGEMENT)
BCA1B02B18 - PROGRAMMING IN C

Time : 3 Hours   **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks   **(10x2=20)**

1. Define computer program.

2. Define translators. Give 2 eg for translators.

3. Identify the differences between one pass and two pass assembler.

4. Define Unary, binary and ternary operators in C.

5. How can we create an infinite loop in C?

6. Explain strcmp().

7. Explain toupper() with an example.

8. Examine a function prototype.

9. Define union.

10. Tell about pointers in C. Discuss how do you initialize it.

11. What is the difference between declaring a header file with < > and " "?

12. Differentiate getc() and getw().

Part B

II. Answer any Six questions. Each question carries 5 marks   **(6x5=30)**

13. State the purpose of an algorithm. Write an algorithm to swap two numbers.

14. Write an algorithm to check if input character is a vowel or not. Draw a flow chart for the same.

15. Explain the operators in 'C' programming.

16. Discuss about Data Types in C.

17. Write a program to check if two strings are equal or not.

18. State the differences between break, continue and exit().

19. Explain the concept of structure within structures.

20. Explain the concept of array of structures in C.

21. Write a 'C' program to read the contents of a file using 'fgets'.

Part C

III. Answer any Two questions. Each question carries 15 marks   **(2x15=30)**

22. Discuss about looping statements in C. Explain the working of While loop. Write a program to check whether the given number is armstrong or not using while loop.

23. Discuss about function. Briefly explain the category of functions with suitable examples.

24. Write a program using structure to read and display details of 'n' employees. The details should include employee name, age, phone number and salary. The net salary is calculated as salary=basic pay+ allowance- deductions.

25. Write a short note on C preprocessors.