## OD-23001

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|Roll No. .....

## B.C.A. Ist Semester Examination, 2023-24 PROGRAMMING IN C

Paper: BC-101

Time: 2 Hours

[Max. Marks: 70]

Note: Attempt any five questions. All questions carry equal marks.

- (A) Explain the basic structure of a C program.
  - (B) Draw and explain flow chart for finding largest number out of three given numbers
- (A) Explain the two way selection (if, if-else, nested if-else, cascaded ifelse) in C language with syntax.
  - (B) Explain the different types of loops in C with syntax and example.
- (A) Write a program in C to find the area and perimeter of a circle.
  - (B) Explain the switch statement with syntax and example.
- What is an array ? Explain the declaration and initialization of one and two dimensional arrays with example.

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- (A) What is call by value? How it is different from call by reference?
  - (B) Write and explain 'C' language program to implement the concept of call by value and call by reference.
- (A) Write a program to take four integer values as 6. input and print the average.
  - (B) Write a C program to swap two numbers.
- Write a C function isprime(num) that accepts an integer argument and returns 1 if the argument is prime, a 0 otherwise. Write a C program that invokes this function...... to generate prime numbers between the given ranges.
- 8" (A) What is structure? How it is different from union?
  - (B) Write on the following:
    - Symbolic Constants
    - (ii) C Tokens
    - (iii) Role of data types in C language

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