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(Sem-1) SEC

**2024**

**PHYSICS**

Paper Code : SEC0101303

*(Basic Programming in C)*

Full Marks : 30

Time :  $1\frac{1}{2}$  hours

***The figures in the margin indicate  
full marks for the questions.***

1. State True or False for the following 5 x 1 = 5
  - a) In C, the main () function is the entry point of every program.
  - b) The print () function is used to take the input from the user.
  - c) In C, a string is a array of characters terminated by a null character.
  - d) The int data type can store decimal values in C.
  - e) C is a case sensitive programming language.
  
2. Define the following with examples (any five) 2 x 5 = 10
  - a. Syntax Error
  - b. Integrated Development Environment
  - c. Flowchart
  - d. Control statement

Contd

- e. Break statement
- f. Switch statement
- g. Nested loop
- h. Pointers
- i. Arrays
- j. Strings

3. Write any three program from the below 5 x 3 = 15

- a) Write a program to reverse a number.
- b) Write a program to take input of two numbers and print their sum, product and difference.
- c) Write a program to find the smallest or greatest of three numbers given as input.
- d) Write a program to compute simple interest from user given inputs.
- e) Write a program to compute factorial of a user given number.
- f) Write a program to print the sum and product of digits of an integer.

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