# Paper : I - 'C' Programming–I

## (Compulsory Question)

1. (a) Define variable & rules for variable name.  3
   (b) Write heirachy of arithmetic operators.  3
   (c) Explain the use of continue statement in C.  3
   (d) Describe various data types in C.  3
   (e) What is the purpose of return statement ?  3
   (f) What is function prototype ?  3

## UNIT–I

2. (a) What is symbolic constant ? How is a symbolic constant defined ? What are the rules & advantages of symbolic constant declaration ?  12
   (b) What do you mean by formatted output ? What are the advantages of getting formatted output ?

3. (a) Explain the following functions with example :
       (i) Putch()        (ii) Scanf()
       (iii) getche()    (iv) gets()
   (b) Define Integer constant & types of Integer constants in C.
   (c) Write short note on Assignment statement in C.

## UNIT–II

4. (a) Explain different operators available in C.
   (b) w.a.p. in C that takes different numbers & check whether given number is odd or even. Your program should terminate when you enter 0 (Zero). Print number of odds & even at the end.  8

5. (a) Explain the syntax & purpose of ELSE-IF Ladder with suitable example.

(b) Explain the Unconditonal tranfer statements in C. Why do unconditional transfer have to be avoided in programs ? 9

## UNIT–III

6. (a) Explain the syntax & purpose of FOR Loop. Also explain additional features that are available in FOR-Loop. 9

(b) w.a.p. in C to print all prime numbers between 10 to 50. 9

7. (a) What is a function ? What are the advantages of User-defined function ? How user defined function is different from Library function ?

(b) What is Recursion ? Explain the concept of recursion by writing a program to computer factorial.

## UNIT–IV

8. (a) What do you mean by the Lifetime & scope of a variable ? Explain the Static & Register class with example. 9

(b) What do you mean by string ? What is the difference between string constant & string variable ? Explain strcat () & strupr () function with example. 9

9. w.a.p. in C to search an element using Binary Search method from n elements.