

**2017**

*Time : 3 hours*

*Full Marks : 80*

*Candidates are required to give their answers in their own words as far as practicable.*

*The questions are of equal value.*

*Answer **five** questions in which*

*Q. No. 1 is compulsory.*

1. Choose the correct alternatives of the following :

(a) All keywords in C-language are in :

(i) Lower Case Letters

(ii) Upper Case Letters

(iii) Camel Case Letters

(iv) None of these

(b) The keyword "break" cannot be simply used within :

(i) do-while

(ii) for

(iii) if-else

(iv) while

(c) The C-language consists of \_\_\_\_\_ number of keywords.

- (i) 32                      (ii) 24
- (iii) 40                    (iv) 56

(d) The operator && is an example for \_\_\_\_\_ operator.

- (i) Assignment            (ii) Logical
- (iii) Increment            (iv) Relational

(e) Which of the following statement is not syntax wise correct ?

- (i) For (i = 0; i < 10; i + +);
- (ii) Printf ("%d", 5);
- (iii) Scanf ("%d", &a);
- (iv) None of these

(f) How do you initialize an array in C ?

- (i) int arr [3] = (1, 2, 3)
- (ii) int arr (3) = (1, 2, 3)
- (iii) int arr [3] = {1, 2, 3}
- (iv) int arr (3) = {1, 2, 3}

(g) C language developed at \_\_\_\_\_

(i) AT and T's Bell Laboratories of USA in 1972

(ii) AT and T's Bell Laboratories of USA in 1970

(iii) Sun Microsystems in 1973

(iv) Cambridge University in 1972

(h) To perform string operation, the header file is needed in :

(i) String.h

(ii) Conio.h

(iii) Studio.h

(iv) None of these

2. What is looping statement ? Explain the different types of looping structures in C-language with examples.

3. What do you mean by file ? Explain the different operations of files with suitable example.

4. (a) Write a program in C-language to sort a given array.

(b) Write a program in C-language to compute  $X^n$  (x to the power n).

5. Explain function ? Distinguish between call by value and call by reference.
6. Differentiate any **two** of the following :
- (a) Structure and Union
  - (b) Break and Continue
  - (c) Array and String
  - (d) While and Do-while
7. What do you mean by array ? Explain the characteristics of an array and types of an array.
8. (a) Write a C program to check the given number is reverse or not. e.g. : input-1234, output-4321.
- (b) Write a C program to check the given number is Armstrong or not.
9. Write short notes on any **two** of the following :
- (a) Storage class
  - (b) Structure
  - (c) Tokens
  - (d) Function
- Auto Register*

