

2015

Time : 3 hours

Full Marks : 100

Pass Marks : 40

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

The questions are of equal value.

*Answer any **five** questions.*

1. Explain the concept of preprocessor directive and header file.
2. What are the Formatted Input and Output functions in 'C' ? Explain with example.
3. Explain Data types, Pointer, Constant and Variable with reference to C.
4. Differentiate between Jumping and Branching Structures in C with an example.

5. Write a program in 'C' to display the values of variables (D, E, F) and addresses of the same variables using pointers.
6. Write short notes on any **two** of the following :
- (a) Compiler
 - (b) Linker
 - (c) Control Structure
 - (d) Logical Operators
7. Write a C program to demonstrate selection sort.
8. Write a program in C to calculate Simple interest for 5 set of PRT using 2 dimensional array.
9. Write a program in C to count the number of vowels in a given string (Word).
10. Write a C program to generate and display prime numbers between 1 to 151.



ZV - 4/1 (600)

(2)

VKV(I) — BCA (4)

2016

Time : 3 hours

Full Marks : 100

Pass Marks : 40

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

The questions are of equal value.

Answer any **five** questions.

1. What is a program ? Explain programming elements in 'C'.
2. Discuss the following sorting technique with their algorithm in 'C' :

Bubble sort

OR

Selection sort

3. What is Pointers ? Discuss Address operator and Reference operator. Give example
4. Discuss Four Control Structure with example.

RZ - 4/1

(Turn over)

5. What is Array ? Write a program in 'C' for accept ten numbers in a linear array then sort the numbers in descending order.

6. What is defined function ? Give an example for the following :

Function with no arguments and no return value.

OR

Function with argument and with return value.

7. What are Primary Data Type ? Discuss also format specifications for said data type used in **Scanf()** and **Printf()** statements.

8. Write short notes on any **two** of the following :

(i) Static Storage class

(ii) Register Storage class

(iii) Data structure

9. Write a programme to calculate simple interest by accepting values of P, R, T through user input.

10. Using Pointer, write a program to SORT a list of storages in Alphabetical order.



RZ - 4/1 (600)

(2)

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2017

Time : 3 hours

Full Marks : 100

Pass Marks : 40

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

The questions are of equal value.

Answer any **five** questions.

1. What do you mean by variable and constant ?
Explain about the different types of constant in c.
2. What is Function ? How it is declared in c ?
What is meant by call by value and call by reference ?
3. What do you mean by array ? Give their characteristic features ?
4. What do you mean by string ? State some library functions for string manipulation. Also create a functions in C to find the length of string.

VE - 4/2

(Turn over)

5. Explain the four basic data types in C ? What is the size in bytes of each type in DOS and unix platform.
6. Write short notes on the following :
 - (a) Break
 - (b) Identifiers
 - (c) Literals
7. Define structure with suitable example. Differentiate between structure and union.
8. What is the difference between scanf () and gets () with respect to data input embedded white space characters ?
9. Write a program in C to find simple interest, by input principal, rate and time.
10. Write a program to input 10 values and print in ascending order.



VE - 4/2 (700)

(2)

VKV(1) — BCA (4)