Navrachana University

End-Semester Examination
FYBCA/FYMScIT (Sem-I) [Autumn, 2017-18]
CS102: Programming Concepts and Algorithms
CS123: Programming Basics

Date: 22-Nov-2017, Wednesday

Time: 10:30 AM – 12:30 PM

Total Marks: 40

Weightage: 40%

Que. 1. **Attempt any six** [12]

A. Differentiate between gets() & scanf() functions.

B. For declaration as int a[10]; the last element is stored at a[9]. Is it true? Justify you answer.

C. Differentiate between call by value & call by reference.

D. Differentiate between formal & actual arguments

E. Differentiate between array & structure

F. Justify. All strings are character array but all character arrays are not stings.

G. What is output of following scriptlet,

```
int p[]={1,3,4,5,9}
int *ptr;
ptr=p;
ptr = ptr + 2;
printf("%d", *ptr);
```

Que. 2. **Attempt any three** [12]

A. Write a short note on array.

B. Explain any four string functions with example.

C. Explain pointers in brief.

D. Write a C program to count frequency of characters in the string, eg. In the string "gujarat", character 'a' is having frequency 2.

Que. 3. **Attempt any two** [16]

A. Write a short note on structure data type.

B. Write a short note on functions.

C. Write a C program to check whether string is palindrome or not.

---------End of Question Paper---------