NEW

2015

BCA

1st Semester Examination

C PROGRAMMING LAB

PAPER-1196 (Set-2)

(PRACTICAL)

Full Marks: 100

Time: 3 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer any two questions:

2×25

1. Write a C program to check whether a given number is armstrong or not.

(The number should be provided by the examiner and should be more than three digit number).

 Write a C program to find the sum of cos(x) series upto n where n <=10, and

 $cos(x) = 1 - x^2/2! + x^4/4! - x^6/6! + x^n/n!$

- 3. Write a C program to merge two arrays.
- 4. Write a C program to to sort the elements of an array using Insertion sort:

12 7 1 9 4 6 2 4 11 5

- 5. Write a C program to find the sum of factorials of all digits of a number using recursion.
- Write a C program to count the different characters and print each character along with their number of occurrence in a string.
- 7. Write a C program to sort the following strings in alphabetic order

Input: Pen, Book, Keyboard, Duster, Artlinemarker, Printer, Mouse, Clip, Stapler.

8. Write a C program to check a given number is existing or not and print its position using any searching algorithm.

- 9. Write a C program to sort all elements of a matrix using bubble sort.
- 10. Write a C program to perform matrix multiplication.
- Write a C program to Count number of vowels and consonant in a given string.
- 12. Write a program to find the GCD and LCM of two
- 13. Write a C program to separate each digit from a number and multiply them and also find the number of digits.
- 14. Write a program to display a name in abbreviated forms:

Example: Amal Kumar Maity
A. K. Maity.

- 15. Write a C program to convert a dicimal number into its equivalent octal number.
- 16. Write a C program to print the following figure:

1

2 3

4 5 6

- 17. Write a C program to display first 10 fibonacci numbers using recursion.
- 18. Write a program to check whether a string is palindrome or not:

Imput: PALINDROME, NAYAN.

Viva —		. 95
PNB —		5
Internal	Asses sment	— 30