NEW

2015

BCA

1st Semester Examination

C PROGRAMMING LAB

PAPER—1196 (Set-3)

(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
taking *one* from each group.   2×25

Group–A

1. Write a program to check whether a given number is Prime.

2. Write a program to display the Armstrong number from 100 to 1000.

3. Write a program to find the factorial of a given number.

4. Write a program to check if a given string is palindrome or not.

5. Write a program to sort the following numbers in descending order :

   12   6   14   10   3   7   5

6. Write a program to check whether a given input is alphanumeric or not.

7. Write a program to swap the values of two variables using call by reference method.

8. Write a program to find the second highest number from an array of numbers.

9. Write a program to extract each digit from a given number and multiply them and also find the number of digits.

10. Write a program to calculate the GCD and LCM of two given numbers.

Group-B

11. Write a program to find first 10 numbers in Fibonacci series using recursion.

12. Write a program to calculate the Mean and Standard Deviation of the following data :

    60   10   26   15   30   45   12   6

13. Write a program to check whether a given Matrix is symmetric or not.

14. Write a program to read a set of numbers and store them in a file.

15. Write a program to display the abbreviation form a given string.

    Example :

    Input : Vidyasagar University

    Output : V.U.

16. Write a program to print the following Sequence :

    1

    2   3

    4   5   6

    7   8   9   10

17. Write a program to convert a decimal number into its equivalent octal form.

18. Write a program to find the roots of any quadratic equation $ax^2 + bx + c = 0$

19. Write a program to compute $1 + \dfrac{2^2}{2} + \dfrac{3^3}{3} + \dfrac{4^4}{4} + \ldots$

20. Write a program to multiply two matrices.

Viva —	**15**
PNB —	**5**
Internal Assessment	*— 30*

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TB—
100