2017

BCA 1st Semester Examination

C PROGRAMMING LAB.

PAPER—1196 (Set-II)

(Practical)

Full Marks : 100

Time : 3 Hours

The figures in the right-hand 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 through lottery basis.   2×25

1. Write a C program to count the number of evens and odd numbers in an array.

2. Find the factors of a numbers and print them in ascending order.

3. Write a C program to calculate first 10 non-Fibonacci numbers.

4. Write a C program to reverse a number and print sum of its digits.

5. Write a C program to print the Pascal triangle :

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            #

        #       #

    #       #       #

#       #       #   ,   #
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5. Write a C program whether a matrix is symmetric or not.

(Turn Over)

7. Write a C program to sorting the element of an array in descending order.

8. Write a C program to count the no. of occurrence of vowels in a given string.

9. Write a C program to find product of the first 10 natural numbers.

10. Write a C program to check a number is prime or not.

11. Write a C program to compute :

$$1 + \frac{2^2}{2} + \frac{3^3}{3} + \frac{4^4}{4} + \ldots + \frac{n^n}{n}$$

12. Write a C program to convert a binary number to its octal number equivalent.

13. Write a C program to reverse a string.

14. Write a C program to print the different characters in a string and their number of occurrences in the string side by side.

15. Write a C program to convert a given lower-case string to upper-case string.

16. Write a C program to concatenate two strings without using the strcat( ) function.

17. Write a C program to count number of vowels and consonant in a given string.

18. Write a C program to print all the leap years between 1000 to 2018.

Viva — 15 Marks

PNB — 05 Marks

Internal Assessment — 30 Marks

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