2018

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 check whether a given number is a prime or not using recursion.

2. Write a C program to sort a set of numbers using bubble sort.

3. Write a C program to solve a quadratic equation taken as an input.

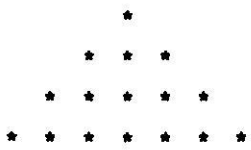
4. Write a C program to implement a doubly linked list.

5. Write a C program to transpose a matric taken from the user.

6. Write a C program to calculate the sum of the following series :
   $1 + (3^2 / 3^3) + (5^2 / 5^3) + (7^2 / 7^3)$ + till n terms.

7. Write a C program to display the consonants and vowels in a given string.

8. Write a C program to print the following triangle :



9. Write a C program to count the number of consonants and vowels in a given string.

10. Write a program to compute sum of the following series upto desired accuracy :

$$\text{Cosx} = 1 - \frac{x^2}{\lfloor 2} + \frac{x^4}{\lfloor 4} - \frac{x^6}{\lfloor 6} + \ldots\ldots \propto .$$

11. Write a C program to calculate the sum of ASCII values of each element of a given string.

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

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

14. Write a C program to compute

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

15. Write a program to abbreviation of a name.

Input : Amal Kumar Pal

Output : A. K. Pal

16. Write a program to check whether a matrix is symmetric or not.

Viva — 15

PNB — 05

Internal Assessment — 30

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