UG/2nd Sem/Elec./H/19 (Pr.)

2019

B.Sc.

2nd Semester Examination

ELECTRONICS (Honours)

Paper - C4P

(C Programming and Data Structures Lab)

[Practical]

Full Marks : 20 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.

Answer any *one* question selecting it by a lucky draw.

1. Write a program in 'C' to genrate Fibonacci series upto 'n' terms. Where 'n' enter through keyboard.

2. Write a program in 'C' to find out whether a member enter through keyboard is prime or not.

3. Write a program in 'C' to evaluate the first 20 terms of the following series :

$$x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \ldots$$

4. Write a program in 'C' to find the roots of a quadratic equation where the coefficient a, b and c must be entered through keyboard.

5. Write a program in 'C' to find the value of $\cos(x)$ with the help of cosine series considering the accuracy of 0.000001 and also find the numbr of terms calculated to achieve the desired accuracy.

6. Write a program in 'C' to find the largest number from an array of 'n' numbers.

7. Write a program in 'C' to sort an array of 'n' members in descending order considering Bubble Sort theorem.

8. Write a program in 'C' to determine the factorial value of a given integer.

9. Write a program in 'C' to convert a binary number to its decimal equivalent.

10. Write a program in 'C' to find the seen of the following series :

$1+\frac{1}{3}+\frac{1}{5}+\frac{1}{7}+\ldots$ *upto* 10th term.

Distribution of Practical Marks :

Experiment :	15
Laboratory Note Book :	02
Viva-voce :	03
Total	20 Marks