

**M.Sc. 1st Semester Examination, 2011**

**ELECTRONICS**

*(Computational Laboratory)*

PAPER—ELC-105

( Practical )

*Full Marks : 50*

*Time : 3 hours*

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

1. Write a program in 'C' to calculate the roots of a quadratic equation.
2. Write a program in 'C' to generate Fibonacci series up to 'N' terms. Where 'N' is read from keyboard.

3. Write a program in 'C' to check a number whether it is Armstrong or not.
4. Write a program in 'C' to check a year whether it is Leap year or not.
5. Write a program in 'C' to evaluate the value of  $\sin(x)$  with the help of sine series taking accuracy of 0.00001 and also calculate the number of terms required to achieve the given accuracy.
6. Write a program in 'C' to check a number whether it is palindrome or not.
7. Write a program in 'C' to convert a decimal number to binary number.

8. Write a program in 'C' to determine the largest number from a given array.
9. Write a program in 'C' to evaluate the value of  $\cos(x)$  with the help of cosine series taking first 20 terms.
10. Write a program in 'C' to sort an array in descending order using Bubble sort technique.
11. Write a program in 'C' to check a number whether it is prime or non-prime.
12. Write a program in 'C' to determine the smallest number from a given array.

13. Write a program in 'C' to check a number whether it is even or odd.
14. Write a program in 'C' to convert a binary number to decimal number.
15. Write a program in 'C' to sort an array in ascending order.

Marks Distribution

Program	:	10
Execution	:	20
Discussion & Accuracy	:	05
Viva	:	10
Laboratory Note Book	:	05
		50
		50