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PG/IS/ELC-105/13(Pr.)

M.Sc. 1st Semester Examination, 2013

ELECTRONICS

(Computational Laboratory)

(Practical)

PAPER—ELC-105

Full Marks : 50

Time : 3 hours

Answer any one question, selecting it by a lucky draw

- 1. Write a C program that will read a binary number and determine its decimal equivalent.**
- 2. Write a program in C to find the value of $\sin(x)$ with the help of sine series considering the accuracy of 0.000001 and also find the number of terms calculated to achieve the desired accuracy.**

(Turn Over)

3. Write a program in C to check a number whether it is palindrome or not.
4. Write a program in C to find the largest number from an array of 'n' numbers.
5. Write a program in C to evaluate the first 20 terms of the following series :

$$1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots$$

6. Write a program in C to sort an array of 'n' numbers in descending order considering Bubble Sort technique.
7. Write a program in 'C' to find out whether a number enter through keyboard is prime or not.
8. Write a program in C to check a year whether it is leap year or not.

9. Write a program in C to convert the temperature from Celsius to Fahrenheit.
10. 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 number of terms calculated to achieve the desired accuracy.
11. Write a program in C to generate fibonacci series up to 'n' terms. Where 'n' enter through keyboard.
12. Write a program in C to check a number whether it is odd or even.
13. Write a program in 'C' to check a number whether it is Armstrong or not.
14. Write a program in C to sort an array of 'n' numbers in ascending order.

(4)

15. Write a program in C that will read a positive integer and determine its binary equivalent.

Distribution of Marks

Program	: 10 Marks
Execution	: 20 Marks
Discussion and Accuracy	: 05 Marks
Viva Voce	: 10 Marks
Laboratory Note Book	: 05 Marks
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Total	: 50 Marks