

3E1482

Roll No. : \_\_\_\_\_

Total Printed Pages : 2

**3E1482**

**B.Tech. (Sem. III) (Main/Back) Examination, February - 2010**  
**Electrical Engineering**  
**(3EE2 Computer Programming - I)**

Time : 3 Hours]

[Total Marks : 80

[Min. Passing Marks : 24

*Attempt **five** questions in all. Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly.*

Use of following supporting material is permitted during examination.

(Mentioned in form No. 205)

1. \_\_\_\_\_ Nil \_\_\_\_\_ 2. \_\_\_\_\_ Nil \_\_\_\_\_

- 1 (a) What do you mean by command line argument? Write a program to calculate factorial of any input number.
- (b) What is the use of pointer? Write a C++ program to calculate sum of two numbers using the concept of pointer.

**OR**

- 1 (a) What are the different types of link list? Explain each type in brief.
- (b) Write a program to delete an element from any given position for double link list.
- 2 (a) What is the use of public, private and protected keywords in C++?
- (b) Explain the concept of class in C++ with suitable example.

**OR**

- 2 (a) What are the differences between class and structure?
- (b) Explain the concept of multiple inheritance with proper example.

3E1482]



1

[Contd...

- 3 (a) What are the main differences between normal user define function and inline function of a class.
- (b) What do you mean by overloading? Write a C++ program to overload any Binary operator.

OR

- 3 (a) What is the use of constructor in C++? Write a C++ program to implement the concept of constructor ?
- (b) What are the main enhancements in C++ over C in data types ?
- 4 (a) What are the differences between single and multilevel inheritance?
- (b) Write a simple C++ program which will show the concept of pointers to objects.

OR

- 4 (a) What is the difference between virtual function and pure virtual function?
- (b) Write a program in C++ to implement the run time polymorphism.
- 5 (a) Write a C++ program to read a file and find out total number of characters, total number of line, total number of words and total number of spaces from a given file.
- (b) What are the different types of file opening modes in C++?

OR

- 5 (a) There are 100 records present in a file. Now write a program to read these records, arrange them in ascending order and write them into a target file.
- (b) Write a program which will explain the concept of template in C++.

