**Roll No.** ⎿ ⎤ ⎤ ⎤ ⎤ ⎤ ⎤ ⎤ ⎤ ⎤ ⎤ ⎤ ⏌　　　　**Total No. of Pages : 02**

**Total No. of Questions : 09**

### B.Tech.(EIE) (2011 & Onwards)　(Sem.–3)
# OBJECT ORIENTED PROGRAMMING
### Subject Code : CS-252
### Paper ID : [A0304]

**Time : 3 Hrs.**　　　　　　　　　　　　　　　**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

### SECTION-A

1. **Answer briefly :**

   a) What is *const* keyword?

   b) What are manipulators in C++?

   c) Define data abstraction.

   d) What is information hiding?

   e) What are static class members?

   f) What is dynamic binding?

   g) Write the concept of polymorphism.

   h) Discuss the need of virtual function.

   i) What are file modes?

   j) What is type conversion?

## SECTION-B

Q2    Describe at least five advantages of object oriented programming. Give the steps of declaration of user defined data types.

Q3    What are various control statements provided in C++? Differentiate by taking an example.

Q4    Differentiate between Call by Value and Call by Reference with the help of examples.

Q5    What is the difference between multiple inheritance and multilevel inheritance?

Q6    Explain the following :

(a) Friend Function.

(b) Rules for constructor

## SECTION-C

Q7    Explain the concept of polymorphism with the help of suitable example.

Q8    What is a virtual function? Write rules for virtual function. Explain with example.

Q9    Write syntax for opening the file using file stream operations.