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
M.Code : 56511

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS 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) Describe data types in C++.

    b) Define Bit Field integer.

    c) What is the concept of abstract class?

    d) What do you mean by data hiding in C++?

    e) Discuss copy constructor.

    f) What is a scope of resolution operator?

    g) Discuss static binding.

    h) What is the necessity of exception handling?

    i) Write the need of file positioning function.

    j) What do you mean by generic function?

SECTION-B

2. Write a program in C++ to check whether the given number is prime or not.

3. Give the steps of declaration of user defined data types. Explain with example.

4. What is function overloading? Write an example using C++ to illustrate the concept of function overloading.

5. Explain the following :

    a) Copy constructor with an example

    b) Virtual Base Class

6. What is polymorphism? Explain the different types of polymorphism.

SECTION-C

7. Explain public, private and protected access specifier and show their visibility when they are declared in inheritance.

8. Explain in detail about the use of streams and stream classes in C++ by taking an example.

9. What is file handling in C++? Write syntax for closing the file using file operations.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.