

Roll No.

Total No. of Pages : 2

Total No. of Questions : 09

B.Tech. (ECE/EE/EEE/EIE) / (CSE - 2007 onward batches) /
(IT - 2007 to 2010 Batch) (Sem.-3rd)

OBJECT ORIENTED PROGRAMMING USING C++

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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

- i. What do you mean by dynamic binding?
- ii. How does a main() function in C++ differ from main() in C?
- iii. How does a C++ structure differ from a C++ class?
- iv. When do we declare a member of a class static?
- v. What is Constructor?
- vi. What is Operator Overloading?
- vii. When do we make a class virtual?
- viii. What is Polymorphism?
- ix. Define hierarchical inheritance.
- x. List two important properties of destructor.

SECTION-B

2. How is dynamic initialization of objects achieved? Explain with example.
3. When is a friend function compulsory in operator overloading? Explain with example.
4. What is Abstract Class? Explain its important features.
5. Explain the applications of the “this” pointer?
6. How do the following two statements differ in operation?

```
cin >> c;
```

```
cin.get(c);
```

SECTION-C

7. Explain with an example, how you would create space for an array of objects using pointers.
8. What is Containership? How does it differ from inheritance? Explain with example.
9. Explain the concept of function overloading with a suitable example.