Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Electronics Engineering/Electrical & Electronics)
(E-1 2012 Onwards)
(Sem.–6)

OBJECT ORIENTED PROGRAMMING

Subject Code : BTEEE-603C
Paper ID : [72844]

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

Q1. Answer briefly :

(i) What is a destructor? How it is defined?

(ii) How you can declare constants? Give examples.

(iii) What is a pure virtual function? What is its use?

(iv) How memory is allocated to objects?

(v) What do you mean by a generic class? What is its use?

(vi) Discuss with examples how we can open and close a file.

(vii) What are default arguments? Give example.

(viii) What is Data hiding? How it is achieved in C++? Give example.

(ix) Differentiate between Call by value and call by reference.

(x) What is a virtual base class? Why it is used?

SECTION-B

Q 2. Explain various looping statements of C++.

Q 3. What are static data members? How these are declared and used? Discuss with example.

Q 4. What is a friend function? Explain its role with an example.

Q 5. Compare functional and object oriented programming paradigms.

Q 6. What is an inline function? How it is different from normal function? In which situations inline function should not be used? Give examples.

SECTION-C

Q7. a) What is Operator overloading? Write a program in C++ to overload binary operator *.

b) What is a virtual function? Why it is used? Explain with suitable example.

Q8. Define constructor. Write main features of a constructor. Explain various types of constructors with examples.

Q9. What do you mean by Inheritance? Explain various types of inheritance with the help of suitable examples.