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Total number of printed pages – 2

B. Tech
BECS 2207

Third Semester (Back/ Special) Examination – 2013

OBJECT ORIENTED PROGRAMMING

BRANCH: CSE, IT

QUESTION CODE : D 208

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory and any **five** from the rest.
The figures in the right-hand margin indicate marks.

1. Answer the following questions : 2 × 10
- (a) What is the application of scope resolution operator in C++ ?
- (b) What is containership ?
- (c) How is the expression (m>n ? m : n) evaluated ?
- (d) Which operator are used to access memory ?
- (e) What is the output of the following programme code ?
- ```
Void main()
{ int i ; j=20; for(i=0,i<=10,i++) cout << j ; cout << l }
```
- (f) C++ class can be considered as abstract data type(Y/N) justify ?
- (g) What is the difference between operator overloading and function overloading by giving example ?
- (h) What is friend function in C++ ?
- (i) Distinguish between constructor and destructor.
- (j) What is the use of this pointer ?
2. (a) What are the different types of Inheritance ? Explain with examples. 5

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- (b) What is polymorphism in C++ ? How polymorphism is achieved at compile time and run time ? 5
3. (a) Write a function using reference variable as arguments to swap the values of pair of integers. 5
- (b) Write down at least six properties of object oriented concept. Explain with examples. 5
4. What is Exception ? Describe the mechanism of exception handling with suitable example. 10
5. (a) Differentiate between Private, Public and Protected data member of the class with example. 5
- (b) What is the difference between structure and classes in C++ ? 5
6. (a) What is the difference between passing as argument by reference and passing it by value ? 5
- (b) Explain the dynamic memory allocation mechanism using C++ features. 5
7. (a) What is constructor and its types ? Explain with suitable examples for each. 5
- (b) What is the difference between method overloading and method overriding using suitable example? 5
8. Write short notes on any **two** of the following : 5×2
- (a) Inline function
- (b) Virtual function
- (c) Compile time vs runtime polymorphism
- (d) Constructor vs destructor.