

B.TECH. DEGREE EXAMINATION, MAY 2014**Fourth Semester**

Branch : Computer Science and Engineering

CS 010 402—OBJECT ORIENTED PROGRAMMING (CS)

(New Scheme—2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer all questions.
Each question carries 3 marks.*

1. ✓ Write down the basic concepts of OOPs?
2. ✓ Give any three benefits of Inheritance.
3. ✓ List out the Operators that cannot be overloaded.
4. ✓ What do you mean by exception handling ?
5. Define formatted console operations.

(5 × 3 = 15 marks)

Part B

*Answer all questions.
Each question carries 5 marks.*

6. ✓ Explain in detail about the concepts of OOPs.
7. ✓ What are the different forms of inheritance ? Explain with an example.
8. ✓ Explain in detail about Unary Operator Overloading with an example program.
9. What are the Virtual Classes ? Explain the need for virtual classes while building class Hierarchy.
10. ✓ What is a File ? What are the steps involved in manipulating a file in a C++ programs ?

(5 × 5 = 25 marks)

Part C

*Answer all questions.
Each question carries 12 marks.*

11. What is Copy constructors ? Give syntax and example program.

Or

12. ✓ What is Destructors ? Give syntax and example program.

Turn over

13. ✓ What are the differences between inheriting a class with public and private visibility mode ?

Or

14. Discuss cost and benefits of inheritance.

15. Define Function selection algorithm. Explain it with one example program.

Or

16. ✓ Explain in detail about the concept of the pure virtual methods.

17. ✓ What are the rules that need to be kept in mind in deciding virtual functions ?

Or

18. ✓ Explain in detail about Throwing and Catching Mechanism.

19. ✓ Write down the notes on Object Oriented design.

Or

20. List out the Object Oriented features in Java.

(5 × 12 = 60 marks)

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