G 1837 (Pages:2)

B.TECH DEGREE EXAMINATION, MAY 2012

Fourth Semester

Branch: Computer Science and Engineering

CS 010 402 – OBJECT ORIENTED PROGRAMMING (CS)

(Regular – 2010 Admissions)

Time: Three Hours   Maximum: 100 Marks

*Answer **all** questions.*

Part A

*Each question carries **3** marks.*

1. Differentiate Procedure Oriented Programming (POP) and Object Oriented Programming (OOP).
2. What is meant by Friend classes?
3. What is meant by Polymorphism?
4. What are the blocks used in the Exception handling?
5. Java is platform independent language. Justify.

(5 x 3 = 15 marks)

Part B

*Each question carries **5** marks.*

6. Describe the advantages of OOPS.
7. Explain about Hybrid inheritance with suitable OOP program.
8. Explain the concept of Abstract class and list its applications.
9. Describe in detail about throwing mechanism.
10. Explain the process of 'Open' files?

(5 x 5 = 25 marks)

Part C

*Each full question carries **12** marks.*

11. Explain nested and local classes with necessary examples.

Or

12. Write a program to implement constructor, copy constructor and destructor.

(12 marks)

13. Explain about Friend function with suitable example.

Or

14. Explain a public, private and protected inheritance.

(12 marks)

15. In detail explain about:
    (a) Function overloading.
    (b) Operator overloading.

    (6 + 6 = 12 marks)

Or

16. In detail explain the concept of the pure virtual methods.
17. Write a program to use single argument in Function template.

Or

18. Write a program to demonstrate the use of throw within and outside a function.

    (12 marks)

19. Explain the process of read and write files.

Or

20.
    (a) How can we determine errors while dealing with files?
    (b) How can we open a binary file and write to it?

    (8 + 4 = 12 marks)

    [5 x 12 = 60 marks]