

II B.Tech II Semester Examinations, April/May 2012**OBJECT ORIENTED PROGRAMMING****Common to Electronics And Telematics, Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Why is an Object [] array called a universal array?
(b) What is the difference between the size and capacity of a vector Object?
(c) Write a program for multiplication of matrices (Test the validity of matrix sizes before performing multiplication). [3+3+10]
2. (a) Write a program to create a class with an inner class. In a separate class, make an instance of the inner class.
(b) Write a program to create a class with an inner class that has a non default constructor. Create a second class with an inner class that inherits from the first inner class. [16]
3. Create a base class with two methods. In the first method, call the second method. Inherit a class and override the second method. Create an object of the derived class, up-cast it to the base type, and call the first method. Explain what happens. [16]
4. Write a java program which creates a moving ball. The ball should move left, right, top, and bottom depending on the arrow key being pressed. [16]
5. (a) Explain multithreading by creating multiple threads (more than two).
(b) what is the use of is Alive() and join() functions in multithreading. [8+8]
6. Create a simple, non-editable combo box with a list of items. When selected one of the items, it will display the string to the console and also printing the string which is being deselected i.e. the string which already been selected. [16]
7. (a) Explain the steps involved in establishing an URL connection.
(b) Write an applet to display the home page of an html file using URL class. [8+8]
8. (a) When dealing with very small or very large numbers, what steps would you take to improve the accuracy of the calculations
(b) What are symbolic constants? How are they useful in developing programs?
(c) Write a program to determine the sum of the following harmonic series for a given value $1 + 1/2 + 1/3 + \dots + 1/n$ The value of n should be given interactively through the keyboard. [4+4+8]

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