II B.Tech II Semester Examinations,April/May 2012
OOPS THROUGH JAVA
Common to IT, E.COMP.E, ETM, CSE, ECE, CSSE

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. (a) How are constants and variables important in developing programs?

   (b) List the eight data types used in Java. Give examples.

   (c) What is scope of a variable?

   (d) What is type casting? Why is it required in programming?   [4+4+4+4]

2. What do you mean by URL? How to create an URL? Explain several methods provided by URL? Give appropriate examples.   [4+4+8]

3. (a) In Java threads do away with polling. Comment on it.

   (b) With the help of an example, explain the following interthread communication methods

     i. wait( )
     ii. notify( ) and
     iii. notifyAll( ).   [4+12]

4. Explain about Object class in detail.   [16]

5. (a) What is an applet? How will you create an applet? Explain with an example.

   (b) What are local and remote applets? Explain the chain of classes from which Applet class is inherited.   [8+8]

6. (a) How do you scale a drawing object in java? Explain with an example java program.

   (b) What is the functionality supported by java related to colours.   [8+8]

7. Write an application to solve quadratic equation of the form
   $Ax^2 + BX + C = 0$ Where the coefficients A, B and C are real numbers. The two real number solutions are derived by the formula
   $X = (-B \pm \sqrt{B^2 - 4AC})/2A$
   For this exercise,you may assume that $A \neq 0$ and the relationship
   $B^2 \geq 4AC$
   holds, so there will be real number solutions for x. Use the standard input and output.

   [16]

8. (a) What is interface? Write a program to demonstrate how interfaces can be extended.

(b) What is package? How do you create a package? Explain about the access protection in packages? [8+8]

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