Set No. 4

II B.Tech II Semester Regular Examinations, Apr/May 2008
OOP THROUGH JAVA
(Common to Electronics & Communication Engineering, Computer Science
& Engineering, Information Technology, Computer Science & Systems
Engineering, Electronics & Telematics and Electronics & Computer
Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. Write a program that will compute the following series:

   (a) $1/1 + 1/2 + 1/3 + ... + 1/n$

   (b) $1/1 + 1/2 + 1/2^2 + ... + 1/2^n$. [8+8]

2. (a) What is a constructor? What are its special properties?

   (b) How do we invoke a constructor?

   (c) What are objects? How are they created from a class? [6+4+6]

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

4. (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]

5. (a) Explain how threads with different priorities execute in environment which supports priorities and which doesn't support priorities.

   (b) what are the functions available in java related to priority. [10+6]

6. (a) Why do you use frames?

   (b) Explain the syntax and functionality of different methods related to Frames. [4+12]

7. Explain the steps involved in creating JCheckBox, JRadioButton, JButton, JLabel. [4+4+4+4]

8. Write a program to illustrate the usage of the following methods of StringBuffer class. Explain the output in each case. Delete(), setChatAt(), deleteChatAt(), append(), chatAt(), getChars(). [16]

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