R09

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2014/2015
**OBJECT ORIENTED PROGRAMMING**
(Common to CSE, IT & CSS)

Time: 3 hours                                                                                 Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1       Explain the following:
   (a)   Inheritance and polymorphism.
   (b)   Dynamic binding and message passing.

2       Write a java program that will compute the following series:
   (a)   $1/1+1/2+1/3+\ldots\ldots+1/n$.
   (b)   $1/1+1/2+1/2^2+1/2^3+\ldots..+1/2^n$.

3  (a)   Explain about "extends" keywords.
   (b)   What is the mechanism by which a call to an overridden method is resolved at run time? Explain with an example.

4  (a)   Define an interface? Write a program which illustrates the design and implementation of an interface?
   (b)   What are the advantages of packages?

5       Write a program to implement the stack operations by handling the exceptions.

6       Design a scientific calculator using AWT?

7  (a)   Explain the functionality of JComponent with an example.
   (b)   Differentiate JComponent and JPanel.

8       Write about the following:
   (a)   Server socket.
   (b)   Datagram socket.

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