Code: R7411002



B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013 **OBJECT ORIENTED PROGRAMMING**

(Electronics and Instrumentation Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. (a) Explain object oriented programming concepts. Describe a areas of applications of object oriented technology.
 - (b) Explain about class hierarchies using suitable example.
- 2. (a) How does a string class differ from the string buffer class?
 - (b) Write a program for banking transactions using a bank account class.Bank account includes the following members:
 Data members: Name of the depositor, account number, type of account, balance amount in the account.

Methods: to assign initial values, to deposit an amount, to withdraw an amount after checking balance, to display the name and balance.

- (c) Explain bitwise logical operators using x, y (x = 0000 0000 0000 1101, y = 0000 0000 0001 1001).
- 3. (a) Discuss about member access rules in inheritance using suitable example.
 - (b) Give an example where interface can be used to support multiple inheritances. Develop a standalone java program.
 - (c) Define overriding and implement overriding concept using suitable programming example in java.
- 4. (a) Write short notes on java API packages.
 - (b) Describe the various forms of implementing interfaces. Give programming examples for each case.
 - (c) Explain about package java.io.*.
- 5. (a) Define thread and explain life cycle of a thread with help of state diagram.
 - (b) Define synchronization and explain how to synchronizing threads.
 - (c) Explain how exception handling mechanism can be used for debugging a programming.
- 6. (a) Write about event sources and event classes.
 - (b) Write a simple program for arithmetic calculations (+, -, *, /) using AWT components.
- 7. (a) Write about Applet life cycle and its importance? What are the steps involved to run an applet?
 - (b) Explain following components using java code:
 (i) JButton class
 (ii) Text fields
 (iii) Scroll panes
 (iv) Tables
 (v) JApplet.
- 8. (a) Differentiate between TCP/IP and UDP/IP.
 - (b) What is the socket and URL? Explain socket class in java.
 - (c) Write a simple program to implement client/ server environment.

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