



Reg. No. :

Name :

**Fifth Semester B.Tech. Degree Examination, November 2014
(2008 Scheme)**

08.506 : OBJECT ORIENTED DESIGN AND JAVA PROGRAMMING (R)

Time : 3 Hours

Max. Marks : 100

PART – A



(10x4=40 Marks)

Answer **all** questions.

1. What are the different diagrams used for representing the aspects of dynamic behaviour ?
2. What is the difference between class diagram and object diagram ?
3. What is the role of design patterns in object oriented design ?
4. What is the difference between Reader/Writer class hierarchy and the Input stream/Output stream class hierarchy ?
5. Compare final, finally and finalize keywords or methods.
6. What classes of exceptions may be caught by a catch clause ?
7. Which method is used to find if a thread is active or not ? Illustrate with example.
8. What is daemon thread ?
9. Distinguish between JAVA swing and AWT.
10. What are the security restrictions on applet ?

PART – B

Answer **one** question from **each** Module.

Module – I

11. a) Explain the role UML plays in a software development process. Illustrate with suitable example. 15
- b) Compare static and dynamic models. 5

OR



12. a) Explain the process of object oriented analysis. 10
b) Draw a use case diagram for railway reservation system. 10

Module – II

13. a) What is operator overloading ? 5
b) Write a program in JAVA that demonstrates three level inheritance. Use the various access controls. 15

OR

14. a) Explain the purpose and usage of serialization. 5
b) What is serializable interface ? 5
c) How do you prevent a field from being serialized ? 5
d) Illustrate the use of serialization and deserialization. 5

Module – III

15. a) Explain the different methods of creating thread. Illustrate the pros and cons of the different methods of creating threads. 13
b) Write a simple program which can be used as an application as well as an applet. 7

OR

16. a) Write a program to access the details of employees such as name, designation and basic pay from a database file. Calculate the total salary by adding basic pay, 50% of basic pay as DA and 20% of basic pay as HRA. Sort the contents of database based on the total salary and display the salary statement of all employees. 15
b) What is event handling ? 5