

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject code: 2715301

Date: 13-06-2014

Subject Name: Advanced Object Oriented Programming

Time: 02:30 pm - 05:00 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

Q. No. 1

- a. Explain runtime polymorphism with suitable example. [7 Marks]
- b. Explain Java access protection specifiers: private, protected, public & default. [7 Marks]

Q. No. 2

- a. What are static data member, method member, class & block? Explain with example. [7 Marks]
- b. What do you understand by Synchronization? Give a suitable example to explain it. [7 Marks]

OR

- b. Explain working and usability of Inner classes with an example. [7 Marks]

Q. No. 3

- a. Explain inheritance and its types supported by Java language. [7 Marks]
- b. Differentiate checked and unchecked Exception with suitable example. [7 Marks]

OR

Q. No. 3

- a. Explain constructor execution for multilevel inheritance. [7 Marks]
- b. What is abstract class? Explain use of constructor in abstract class with example. [7 Marks]

Q. No. 4

- a. What is a Thread? Explain the two mechanisms to create thread with code example. [7 Marks]
- b. Explain thread synchronization in detail. [7 Marks]

OR

Q. No. 4

- a. Explain Servlet lifecycle with proper example. [7 Marks]
- b. How and where Comparable interface is used? [7 Marks]

Q. No. 5

- a. Explain RMI with proper client and server code. [7 Marks]
- b. Write a Java program to copy a binary from one folder to another. [7 Marks]

OR

Q. No. 5

- a. What is a stream? Explain types of streams available in java. [7 Marks]
- b. What is method overloading? Explain with code example. [7 Marks]
