**Reg. No. \_\_\_\_\_\_\_\_**

**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May-2013**

**Subject Title: FUNDAMENTALS OF JAVA Time: 3 hours**

**Subject Code: 10CA202 Maximum Marks: 100**

#### **Answer ALL questions**

**PART – A (10 x 1 = 10 MARKS)**

1. Is Java an interpreted language?

2. Increment operator in Java is \_\_\_\_\_\_\_.

3. What is the default access specifier in Java?

4. Define Class.

5. Multiple inheritance in Java is handled by \_\_\_\_\_\_\_\_.

6. What is an Object Cloning?

7. User interface that can collect user input more than one line long is \_\_\_\_\_\_\_.

8. Differentiate Choice and List.

9. What is Assertion?

10. Java Language provides \_\_\_\_\_\_\_ keyword to protect a code block from concurrent accessing.

**PART – B (5 x 3 = 15 MARKS)**

11. Why is Java architecturally neutral?

12. Explain about method overloading.

13. Differentiate between object copying and object cloning.

14. List out additional components in swing.

15. Explain the usage of ‘throw’ in exception.

**PART – C (5 x 15 = 75 MARKS)**

16. a. Discuss different data types available in Java. (7)

b. Give a detailed note on i. Operators ii. Strings. (4+4)

(OR)

17. Describe in detail about an array. Write a program to display the numbers in ascending order.

18. What is Inheritance? What are super classes and subclasses? Write a program to illustrate the concept of multiple inheritance.

(OR)

19. Describe the Object class and important methods of the Object class.

20. Discuss Inner Class in detail with a sample code snippet.

(OR)

21. Explain the classes under 2D shapes.

22. Write a graphics program to display a message in a label when mouse is clicked on a button.

(OR)

23. Discuss the component hierarchy in detail.

24. What is an Exception? Explain various exceptions with examples.

(OR)

25. Write notes on the following:

a. Thread priorities b. isAlive() c. join() (3x3)

d. Synchronization (6)