FACULTY OF INFORMATICS
B.E. 2/4 (IT) II Semester (Main) Examination, June 2010
OOP USING JAVA

Time: 3 Hours]   [Max. Marks: 75

*Note : Answer **all** questions from Part A. Answer **any five** questions from Part **B**.*

PART – A   (25 marks)

1. Explain about Encapsulation principle.   2

2. Does garbage collector guarantee that a program will not run out of memory ?
   Justify.   3

3. What value does readLine ( ) returns when it has reached the end of file ?   2

4. Write a program that demonstrates join ( ) method of thread class.   3

5. Write a program to count no. of words in a string using string Tokenizer class.   3

6. What is the difference between interface and abstract class ?   2

7. Write short note on reader and writer classes.   3

8. What is a checked exception ? Write a program that explains the same.   3

9. What is the difference between vector and array list classes ?   2

10. List all Java operators.   2

PART – B   (50 Marks)

11. a) Write the rules of overloading and overriding a method from parent to
       child with suitable code examples.   7

    b) Explain about Java packages with suitable code examples.   3

12. a) Write short notes on string class constructors and methods.   5

    b) Explain about synchronized keyword with suitable code examples.   5

13. a) Write a program to display size of a given file on disc. 5

b) Write a program to add two integer numbers read from a text file and display results on console. 5

14. a) What are the wrapper classes ? Explain. 6

b) What is the difference between = = operator and equals ( ) of object class ? 4

15. What are the listener interfaces ? Explain each in detail. 10

16. a) What are the different GUI components ? Explain each with code examples. 5

b) Explain about list implemented classes. 5

17. Write short notes on the following :

a) Date class. 4

b) Legacy classes. 3

c) Iterator versus list iterator. 2

d) String buffer class. 1