

## FACULTY OF INFORMATICS

## B.E. II/IV Year (IT) II Semester (Main) Examination May / June 2011

## OOP USING JAVA

Time : 3 Hours]

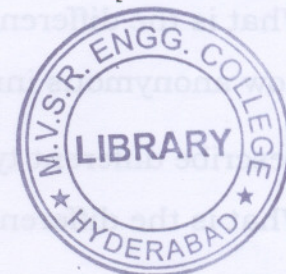
[Max. Marks : 75

*Answer all questions from Part A.**Answer five Questions from Part B.***Part A** — (Marks :  $10 \times 2 \frac{1}{2} = 25$ )

1. What does the following statement prints?  
System.out.println ("ab" + 2 + 3);
2. How can you check whether a string S is the empty string or not?
3. What are chained exceptions?
4. What is the purpose of transient modifies?
5. What is the difference between Dictionary and Hash Table?
6. What is the difference between Panel and Frame?
7. How do you place applet inside an HTML page?
8. What is the purpose of toString () method defined in Object class?
9. Does Java support multiple inheritance?
10. What is the difference between capacity and size of a vector class?

**Part B** — (Marks :  $5 \times 10 = 50$ )

11. (a) Explain the usage of final key word in different contexts.  
(b) Write Java program to implement RATIONAL class which represents a rational number with the following methods. (i) addition (ii) multiplication (iii) equals – to check the equality of two rational numbers.
12. (a) Explain dynamic dispatch with suitable example?  
(b) Explain the usage of wait () and notify () methods in inter thread communication.
13. (a) Write Java program to copy a text file to another file. Read source and destination file name from command line.  
(b) What is the difference between string and stringbuffer class? Explain with example.



14. (a) Explain the usage of Comparator interface in collections framework.
- (b) Write a program to read date in DD/MM/YYYY format and print in MM/DD/YYYY format using String Tokenizer class.
15. (a) What is the difference between paint() and repaint() methods?
- (b) How anonymous inner classes are useful in handling events?
16. (a) Describe different types of layout managers.
- (b) What is the difference between TextField and TextArea?
17. Write short notes on :
- (a) Reference Types
- (b) Packages
- (c) Serialization.