JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, November/December - 2015
JAVA PROGRAMMING
(Common to CSE, IT)

Time: 3 Hours   Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART – A
(25 Marks)

1..a) Compare inheritance with polymorphism.   [2M]
   b) What is the use of finalize method?   [3M]
   c) What is the significance of toString method of Object class?   [2M]
   d) Differentiate between hierarchical inheritance and multiple inheritance. [3M]
   e) Define exception. Give examples.   [2M]
   f) List the functions for inter thread communication.   [3M]
   g) Give the list of Collection interfaces.   [2M]
   h) Compare filtered byte streams with buffered byte streams.   [3M]
   i) Differentiate between swing components and AWT components.   [2M]
   j) What is an adapter class? Give any three examples for it.   [3M]

PART – B
(50 Marks)

2.a) Compare procedural languages with object oriented languages.
   b) Explain the important features of Java.   [5+5]

OR

3.a) List various types of statements and quote suitable examples for each type.
   b) With a program illustrate the use of command line arguments.   [5+5]

4.a) Explain multilevel inheritance with the help of abstract class in your program.
   b) Explain the method overriding with an example program.   [5+5]

OR

5.a) Can Inheritance be applicable to interfaces? Justify your answer with suitable program.
   b) Discuss the access modifiers in packages.   [5+5]

6.a) Write a program to implement multi thread programming.
   b) Explain thread life cycle.   [5+5]

OR

7.a) How to define a user exception in a program? Illustrate with an example.
   b) Write a program to explain multiple catch blocks usage.   [5+5]

8.a) Differentiate between closable and flushable interfaces. What are the two ways to close a stream?
   b) Explain the different types of drivers used in JDBC.   [5+5]

OR

9.a) "Vector implements a dynamic array." Substantiate this statement.
   b) List the methods defined by stack.   [5+5]

10.a) Explain delegation event model in detail.
    b) Write an applet to display a smiley with a greeting message to the user.   [5+5]

OR

11.a) What is the significance of Layout managers? Discuss briefly various layout managers.
    b) Write a note on JScrollPane.   [5+5]

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