Code No: 114CX

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, May-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) What is data abstraction? [2M]
 b) List string manipulation functions of Java String class. [3M]
 c) Differentiate between interface and abstract class. [2M]
 d) Explain the use of 'final' keyword. [3M]
 e) Differentiate between thread and process. [2M]
 f) List any six built-in exceptions in Java. [3M]
 g) What is the difference between array and vector? [2M]
 h) List the byte stream classes. [3M]
 i) What are the containers available in swing? [2M]
 j) Compare Applets with application programs. [3M]

Part-B
(50 Marks)

2.a) Explain the basic concepts of object oriented programming.
 b) What is the usage of enumerated data type? Give examples. [5+5]
OR
3.a) Discuss Java jump statements.
 b) Write about garbage collection in Java.
 c) Explain the use of 'this' keyword. [3+3+4]

4.a) Explain method overriding with a suitable example program.
 b) With suitable program segments describe the usage of 'super' keyword. [5+5]
OR
5.a) What is a nested class? Differentiate between static nested classes and non-static nested classes.
 b) How to define a package? How to access, import a package? Explain with examples. [5+5]

6.a) With a suitable Java program explain user-defined exception handling.
 b) What is meant by re-throwing exception? Discuss a suitable scenario for this. [5+5]

OR

7.a) Does Java support ~~multiple inheritance support with a suitable~~ discussion.
 b) Describe producer-consumer pattern using inter-thread communication. [5+5]

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Thomas Griffiths

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