

R13

Code No: 114CX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year II Semester Examinations, December - 2018

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 the significance of Java's byte code? [2]
- b) List the applications of object oriented programming. [3]
- c) Differentiate class, abstract class and interface. [2]
- d) How to create and use a package in Java program? [3]
- e) How does Java support inter thread communication? [2]
- f) List any four unchecked exception. [3]
- g) What is the use of Iterator class? [2]
- h) Compare byte streams with character streams. [3]
- i) Give the subclasses of JButton class. [2]
- j) Differentiate between grid layout and border layout managers. [3]

PART- B**(50 Marks)**

- 2.a) What are the drawbacks of procedural languages? Explain the need of object oriented programming with suitable program.
 - b) Discuss the lexical issues of Java. [5+5]
- OR**
- 3.a) What are the primitive data types in Java? Write about type conversions.
 - b) What is a constructor? What is its requirement in programming? Explain with program. [5+5]
- 4.a) With suitable code segments illustrate various uses of 'final' keyword.
 - b) Discuss about anonymous inner classes. [5+5]
- OR**
5. What are the benefits of inheritance? Explain the various forms of inheritance with suitable code segments. [10]
- 6.a) With a program illustrate user defined exception handling
 - b) How to handle multiple catch blocks for a nested try block? Explain with an example. [5+5]
- OR**
- 7.a) Describe how to create a thread with an example.
 - b) Write a program to explain thread priorities usage. [5+5]

8. What support is provided by File class for file management? Illustrate with suitable scenarios. [10]

OR

9.a) Describe different types of JDBC drivers.

b) Explain the random access file operations with a suitable program. [5+5]

10.a) What is the role of event listeners in event handling? List the Java event listeners

b) Write an applet to display the mouse cursor position in that applet window.[5+5]

OR

11.a) Discuss various AWT containers with examples.

b) Explain about the adapter class with an example. [5+5]

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