Code No: 114CX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, October/November - 2016 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) Define polymorphism. [2] Why is Java known as platform independent? b) [3] Differentiate between abstract class and interface. c) [2] d) How to create and access a package? [3] e) List the thread states. [2] What keywords are essential in handling user-defined exception? [3] f) g) What is the use of String Tokenizer class? [2] Write about the random access file operations. [3] h) What are the merits of swing components over AWT? i) [2] **i**) What is an adapter class? What is its significance? List the adapter classes. [3] **PART-B** (**50 Marks**) 2. What are the drawbacks of procedural languages? Explain the need of object oriented programming with suitable program. [10] 3.a) Does Java support multi way selection statement? Justify your answer. Describe type promotion rules of Java. b) [5+5]Explain multilevel inheritance with the help of abstract class in your program. 4.a) Can inheritance be applied between interfaces? Justify your answer. b) [5+5]What is meant by dynamic method dispatch? Explain with a program. 5.a) Illustrate the use of static nested classes. b) [5+5]6. What is an exception? How are exceptions handled in Java programming? Explain with suitable program. [10] OR Describe the need of thread synchronization. How is it achieved in Java 7. programming? Explain with a suitable program. [10]

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8.a) Differentiate between ArrayList and Vector.

b) List the methods of Stack class.

[5+5]

OR

- 9. Write a JDBC program to search for an attribute in a table and display the entire tuple to the user. For example, display all the details of the student given his/her roll number.
- 10.a) Is Applet more secure than application program? Justify your answer.
 - b) Design a user interface to collect data from the student for admission application using swing components. [5+5]

OR

11. Write a program to demonstrate various keyboard events with suitable functionality. [10]

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