Code No: 124CX

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, March - 2022
JAVA PROGRAMMING
(Common to CSE, IT)

Time: 3 Hours   **Max. Marks: 75**

Answer any five questions
All questions carry equal marks

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1.a)   What are the drawbacks of procedural languages? Explain the need of object-oriented programming with suitable program.
  b)   Does Java support multi way selection statement? Justify your answer.   [8+7]

2.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.
                                                                                           [8+7]

3.   What are the benefits of inheritance? Explain the various forms of inheritance with suitable code segments.   [15]

4.a)   How to define a package? How to access, import a package? Explain with examples.
  b)   Explain method overriding with a suitable example program.   [8+7]

5.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.
                                                                                           [8+7]

6.   Describe the need of thread synchronization. How is it achieved in Java programming? Explain with a suitable program.   [15]

7.   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.
                                                                                           [15]

8.a)   What is the role of event listeners in event handling? List the Java event listeners.
  b)   Design a user interface to collect data from the student for admission application using swing components.   [8+7]

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