R19

Code No: 862AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA II Semester Examinations, July/August - 2021
OBJECT ORIENTED PROGRAMMING

Time: 3 Hours   Max.Marks:75

Answer any five questions
All questions carry equal marks
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1.a) Discuss the need of object oriented programming paradigm.
  b) List the data types supported by Java and give their size.   [8+7]

2.a) How to perform constructor overloading in Java? Explain with an example program.
  b) Write a Java program to count number of words in a given sentence.   [8+7]

3.a) Explain the benefits and costs of inheritance.
  b) Demonstrate package creation and accessing with a suitable program.   [8+7]

4.a) How to implement multiple inheritance in Java? Explain with a program.
  b) What are the two ways of using 'super' keyword?
  c) Differentiate between an interface and an abstract class.   [5+5+5]

5.a) What is an exception? Discuss exception handling in Java.
  b) How to create a user defined exception? Illustrate handling such an exception.
  c) Compare String and String Buffer class.   [5+5+5]

6.a) What are the sources for action events? What methods of the Action Listener interface have to be over written to handle action events? Explain with an example.
  b) Write a program to handle mouse events.   [8+7]

7.a) Describe model-view-controller architecture.
  b) Write a program to create a JFrame for student registration to a technical event using swing components.   [8+7]

8.a) Explain life cycle of an applet.
  b) How to execute an applet?
  c) Write a program to create multiple threads using suitable methods.   [5+5+5]

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