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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

- 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.
 - Write a Java program to count number of words in a given sentence.

[8+/]

- 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?
 - Differentiate between an interface and an abstract class.

[5+5+5]

- 5.a) What is an exception? Discuss exception handling in Java.
 - 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.
 - 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?
 - Write a program to create multiple threads using suitable methods.

[5+5+5]

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