

R13

Code No:813AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA III Semester Examinations, March/April - 2022****JAVA PROGRAMMING****Time: 3 Hours****Max.Marks:60**

Answer any five questions
All questions carry equal marks

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- 1.a) Explain constructor overloading with an example.
- b) What is auto boxing in java? Explain with an example. [6+6]
- 2.a) Discuss about polymorphism with an example program.
- b) Write a program that reads an integer between 0 and 1000 and adds all the digits in the integer. For example, if an integer is 632, the sum of all its digits is 11. [6+6]
- 3.a) Give a brief summary on inheritance with examples.
- b) Describe the various forms of implementing interfaces. [6+6]
4. Explain how to create, access and import packages with an example program. [12]
- 5.a) Discuss the methods available in the Character Streams.
- b) What is difference between Array List and Linked List in collection framework? [6+6]
- 6.a) Write a program to read a file content and extract words using String Tokenizer class.
- b) How hash table can change the iterator? Explain. [6+6]
- 7.a) Differentiate between checked exceptions and unchecked exceptions with examples.
- b) Write a java program to illustrate the usage of try and catch blocks. [6+6]
- 8.a) Write a Java program for keyboard events.
- b) Differentiate between applets and applications. [6+6]

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