

R15**Code No: 823AD****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, March/April - 2022****JAVA PROGRAMMING****Time: 3 Hours****Max.Marks:75****Answer any five questions****All questions carry equal marks**

- - -

- 1.a) What is a Constructor? How to invoke a constructor in JAVA? Explain.
b) Briefly describe about parameter passing techniques in Java. [8+7]
- 2.a) Discuss various primitive data types in Java.
b) Write a java program to find maximum of three numbers using ternary operator. [7+8]
- 3.a) Explain the use of 'super' and 'final' key words in java.
b) Illustrate the importance of Abstract classes with a JAVA program. [7+8]
4. Write a detail note on interfaces and packages in java with examples. [15]
- 5.a) Explain the purpose of BufferedWriter classes in Java with an example.
b) Write a Java program that reads from the 'text' file using File Reader. [7+8]
- 6.a) Briefly explain about the following
i) Hash Table ii) String Tokenizer
b) Write a Java program to accepts a file name as command line argument and finds the length of the longest line in the file and displays an error message if the file does not exist. [7+8]
- 7.a) Demonstrate nested try statements and finally statements.
b) Explain thread synchronization with respect to multithreading. [7+8]
- 8.a) Describe the event handling mechanism in java with an example.
b) Write an applet program that will take an input from the user to calculate the average of two integers. [7+8]

---oo0oo---