## www.FirstRanker.com www.FirstRanker.com Code No: 133BM **R16** JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, November/December - 2018 OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Common to CSE, IT) Max. Marks: 75 Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART- A (25 Marks) 1a) What is inheritance? Give example. Define the basic characteristics of object oriented programming. [2] What is Console class? What is its use in java? [3] c) d) What is the use of auto boxing in java? Explain. [2] What is thread based preemptive multitasking? [3] ·e) How do we set priorities for threads? [2] What is a Java Priority queue? [3] g) What is a Collection Class? Give an example. [2] h) What is Swing in Java? How it differs from Applet. i) [3] j) [2]

How do applets differ from application program? [3] PART-B

(50 Marks) 2.a) Describe the structure of a typical Java program with an example. Write the significance of Java Virtual Machine. b) [5+5]

3.a) How do we implement polymorphism in JAVA? Explain briefly. What is an array? How do you declare the array in java? Give examples. b) [5+5]

How to design and implement an interface in Java? Give an example 4:a) Give an example where interface can be used to support multiple inheritance. b)

What are the methods available in the Character Streams? Discuss. 5.a) Distinguish between Byte Stream Classes and Character Stream Classes. b) [5+5]

What is an Exception? How is an Exception handled in JAVA? 6.a) Write a java program that illustrates the application of multiple catch statements. [5+5] · b)

OR Differentiate between multiprocessing and multithreading. 7.a) What is implement these in a program? b)

Write a program that creates two threads. Fist thread prints the numbers from 1 to 100 and the other thread prints the numbers from 100 to 1. [5+5]

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