FirstRanker.com Enrolment FirstRanker.com www.FirstRanker.com GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2018 Subject Code:2150704 Date:11/12/2018 Subject Name: Object Oriented Programming using JAVA Total Marks: 70 Time: 10:30 AM TO 01:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. MARKS O.1 (a) Define following. 03 Byte code 2) Java Virtual Machine Unicode (b) Write a program which takes five numbers as command line 04 argument from user, store them in one dimensional array and display count of negative numbers. (c) What do you mean by Interface? Compare interface and abstract 07 class with suitable example. (a) When will you declare a method as a static? Explain static method 0.2 03 with suitable example. (b) Explain inner class with example. 04 (c) Explain following keywords of java with example. 07 final finally OR ((c) Explain following keywords of java with example. 07 1) super this (a) What is java collection framework? What are the benefits of the 0.3 03 java collection framework? (b) What is Exception? Demonstrate how you can handle different 04 types of exception separately. (c) What is dynamic method dispatch? Explain with suitable 07 example. OR (a) What is wrapper class? What is the use of wrapper class in Java? 03 0.3 (b) What do you mean by Overloading? Explain constructor 04 overloading with suitable example. (c) Explain following keywords with example 07 throw throws (a) Write a program that reads file name from user, through command 03 0.4 line argument and displays/reads content of the text file on console. (b) What is package? What are the requirements of it? What we can 04 achieve using package? (c) What is multithreading? What are the ways in which you can 07 create a thread? Explain with Example



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0.4
       (a) Write a program that accepts name of website from user, and
            displays IP address of it on console.
       (b) What will be the output of following code snippet?
                                                                                04
            (1)
            class evaluate {
                 public static void main(String args[])
                        int arr[] = new int[] {0, 1, 2, 3, 4, 5, 6, 7, 8, 9};
                        int n = 6;
                        n = arr[arr[n] / 2];
                        System.out.println(arr[n] / 2);
                    ł
               3
            (2)
            class equality {
                 int x:
                 int y;
                 boolean isequal()
             ٤
                   return(x == y);
               3
               class Output {
                 public static void main(String args[])
                   equality obj = new equality();
                   obj.x = 5;
                   obj.y = 5;
                   System.out.println(obj.isequal())
       (c) Explain use of following methods with suitable example
                                                                                07
            isAlive(), join(), setPriority().
0.5
       (a)
            What is use of fork and join in activity diagram? Explain with
                                                                                03
            suitable example.
       (b) What is UML? Explain Class Model, State Model and Interaction
                                                                                04
            Model in brief,
       (c) Draw class diagram of bank management system.
                                                                                07
                                          OR
                                                                                03
0.5
       (a) What is usefulness of sequence diagram? List components of it.
       (b) Explain generalization in class diagram with example.
                                                                                 04
       (c) Draw use case diagram for hotel management system.
                                                                                07
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