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(Autonomous Institute, Affiliated to VTU) (Approved by AICTE, New Delhi & Govt. of Karnataka) Accredited by NBA & NAAC with 'A' Grade

SEMESTER END EXAMINATIONS - MAY/JUNE 2018

Course & Branch : B.E.: Information Science and Semester Engineering Subject Max. Marks: 100 : Java and J2EE Subject Code : 3 Hrs : IS624 Duration **Instructions to the Candidates:** Answer one full question from each unit. **UNIT-I** a) Create a package called college, with base class student with data CO1 (08) members (USN, Name, Age) , derive a new class ug student from base class with data members (semester, total credit) Write a java program to include the methods for getting input, display and find the semester wise average age for all ug students. Import the above package and test CO1 (06)With an example program, demonstrate the working of nested try block. b) (06)CO1 Explain autoboxing and unboxing in method call and execution. (08)CO1 Implement integer stack basic operations using interface concept. 2. a) CO1 (06) Find the errors in the following code. b) class ThrowsDemo{ static void throwOne(){ System.out.println("inside throwOne"); throw new IllegalAccessException("demo");} public static void main(String args[]){ throwOne(); ii)Is the following code legal? try { } finally { CO1 (06) Consider the following enum: enum Answers { NO, YES, MAYBE, LATER, SOON, NEVER Write a program to generate a random answer using Answers. **UNIT-II** List the benefits and limitations using wrappers instead of primitive data CO2 types. Explain any six List interface methods at work. 3. Write a program to create two LinkedList objects, merge them and CO2 (06)remove every second element from the final list. b) Write a Java program to demonstrate storing user-defined Objects in a CO2 (06)c) collection. (04)With an example discuss how do you obtain an array from an ArrayList. CO2 What are the different ways to traverse a List? Illustrate each of them (07)CO₂ a) 4. b) Create a Linked list which stores 10 Integer elements. Write a java with an example. program to find the sum of elements in this list and display it using an c)

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UNIT- III

