Name of the Student : MANA CONTROL OF THE STATE OF THE ST

Date: 09/25/17

Quiz 3 for Lesson 8-12 - Set 1

I. Match the suitable exception for the given code. [4 Points]

 $\label{lem:contour} \begin{tabular}{l} \underline{IClassCastException, ArrayIndexOutOfBoundsException, NumberFormatException, } \\ \underline{NullPointerException, InputMismatchException, ClassNotSuppotedException]} \\ \end{tabular}$

public class MatchEx ception { public class MatchException { public static void main(String args[]){ public static void main(String args[]){ Object o = null; Object o = new Object(); System.out.println(o.toString()); String s = (String)o; Answer: Null Poiter Exception Answer: ClassCast Exception public class MatchEx ception { public class MatchException { public static void main(String args[]){ public static void main(String args[]){ String s = "Java"; int[] x = new int[5];int i = Integer.parseInt(s); System.out.println(x[5]); System.out.println(i); Answer: Number For matexception Answer: Array Index Dul 17 F. Bounds Exception

II. Answer the following questions

2. Construct a Binary Search Tree for the given set of elements and perform tree traversal.

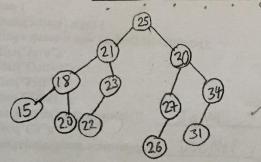
[3 Points]

a) Construct a Binary Tree.

Set of inputs are: [25 21 30 18 27 15 20 26 23 22 34 31]

b) Write Pre-order traversal 25 21 18 15 20 23 22 30 27 26 34 .3

c) Write Post-order traversal 15 20 18 22 23 21 26 27 31 34 30 23



3. Fill your answers as "Yes" or "No" in the table according to the Java API classes as per the given aspects mentioned in columns. No other words allowed. Allow Duplicates? [3 Points] ArrayList Sorted Collection? TreeSet Yes HashSet ND No No -4. Fill up the answer in the dash with the answer of either Interface or Class. No other words a. Collection > Interface d. Queue > Interface b. Collections → Class c. Map > f. List > Interface 5. Fill the answers in the table according to the given aspects. Your answer should be Yes or No. Feature [4 Points] java.util.HashMap java.util.Hashtable Allows null key. Allows null values Allows duplicate keys Synchronized (for safe multithreading) No 6. Write the output of the given code in the dash. This code uses the API. [2 Points] public class QueueDemo { public static void main(String[] args) { Queue<String> queue = new LinkedList<String>(); queue.offer("Java"); queue.offer("DotNet"); queue.offer("PHP"); queue.offer("HTML"); System.out.println(queue.element()); Java Queue.offer("C#"); System.out.println(queue.remove());

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	Stack <integer> stack = new Stack<integer>();</integer></integer>	
	stack.push(6); stack.push(7);	
	System.out printle	
	stack.push(15);	
	System.out.println(stack.pop()); 15	
	III. Circle the right choice.	
	7. Which one of these interfaces must contain a unique(no duplicate) element? (a) Set b) List c) Oueve that	
	d) AbstractList	
	8. Java's TreeSet and TreeMap classes implemented the balanced tree which is called a) AVI Trees (1) Properties (2) Properties (2) Properties (3) Properties (4) Propertie	
		_
	9. What is the output of the given code?	
	public class Demo {	
	public static void main(String[] args) {	
	octosting obj = new Tree Set ().	
	obj.add("Heilo"); if(obj.add("Hello"))	
	System.out.println(true);	
	System.out.println(false);	
	}	0
		每
6)	a) true b false c) Run time Error d) Compile time error	
-	10. An object that is for a RuntimeException is an Exception. The converse is also true. This	Mose
S	statement is true of false.	
	a) True b False	
1	1. Integer[] input = { 10, 15, 12, 11, 13 };	% /
1	Which one of the following statement gives the sorted elements for the given input?	
	(a) Arrays.sort(input) b) Collections.sort(input)	
12	2. Which one can be used to assure program correctness during the testing and avoid logic	
err	rors?	
	a) Exceptions (b) Assertions	