Mid Semester Examination

School of Computer Engineering KIIT University

Subject: Programming Tools & Techniques

Time: 2hrs Full Marks: 25

(Answer any Five Questions including Question No. 1)

0.1 Answer the following questions briefly. /1 X 5 Write any two difference between abstract class and interface in Java. Explain any one technique of attaching external stylesheet. (ii) (iii) Explain any two usage of 'final' keyword with example in Java. (iv) Write the output of the following Java code with justification. String s= "abc"; public static void main (String a[]){ System.out.println(s);} (v) What is Orthogonality and what is it's disadvantage? Q.2 What is command line argument in Java? Write a program in Java to find no. of even and odd numbers out of five numbers entered at the command line. /1 + 4Q.3 Explain in detail the characteristics of a good programming language. 15 Design a registration form in HTML with following fields. Q.4 15 Name -textfield Photo -image Address -textarea Password -password field DateOfBirth - three separate combo box for date, month and year Gender -radio button (male or female) Hobbies -checkbox (minimum three hobbies) Submit -button Q.5. In an organization there are two types of employees - technical and non-technical, each with name, department name and unique ID. The rules for salary calculation are as follows -Earnings = basic + DA (80% of basic) + HRA (15% of basic) Deduct = 12 % of basic Bonus = 40% of basic Net salary = earnings -deduct + bonus (if any) Bonus is given only to the non-technical employees. Write all the programs in Java to print salary slip for an employee for the user entered basic salary amount using method overriding technique. Q.6. What is Dynamic Method Dispatch? Explain it with suitable example in Java. 15 Q.7. Write short notes on any two of the following -15 frames in HTML i) static modifier in Java ii)

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Programming environment

package in Java

iii)