



KIIT Deemed to be University
Online End Semester Examination(Spring Semester-2021)

Subject Name & Code: Introduction To Web Technology, IT 3042

Applicable to Courses: B.Tech

Full Marks=50

Time:2 Hours

SECTION-A(Answer All Questions. Each question carries 2 Marks)

Time:30 Minutes

(7×2=14 Marks)

<u>Question No</u>	<u>Question Type (MCQ/ SAT)</u>	<u>Question</u>	<u>CO Mapping</u>	<u>Answer Key (For MCQ Questions only)</u>
<u>Q.No:1</u>	<u>MCQ</u>	An web page is designed to keep the name of the university as KIIT UNIVERSITY as meta information. Which is the correct HTML statement (1) <u><meta name="University" value="KIIT UNIVERSITY"></u> (2) <u><meta key="University" value="KIIT UNIVERSITY"></u> (3) <u><meta key="University" content="KIIT UNIVERSITY"></u> (4) <u><meta name="University" content="KIIT UNIVERSITY"></u>	CO1	(4)
	<u>MCQ</u>	For setting the background color of the page as black, which HTML statement is correct? (1) <u><body bgcolor="black"></u> (2) <u><body bgcolor="#000000"></u> (3) <u><body bgcolor="rgb(0,0,0)"></u>	CO1	(4)

		(4) All of the above are correct.		
	<u>MCQ</u>	<p>What are the legal values of align attribute of <table> and <caption> tag?</p> <p>(1) Left, center</p> <p>(2) Right,top</p> <p>(3) Left,right</p> <p>(4) Bottom,center</p>	CO1	(2)
	<u>MCQ</u>	<p>What type tag <meta> is? Using this tag, where the content is displayed?</p> <p>(1) Single, not in the browser window</p> <p>(2) Single, in the browser window</p> <p>(3) Paired, in the browser window</p> <p>(4) Paired, not in the browser window</p>	CO1	(1)
<u>Q.No:2</u>	<u>MCQ</u>	<p>The style of <h1> and <h2> defined in internal style sheet is h1{color:red} h2{color: blue}. In external style sheet, the style defined is h1{ color:yellow}.</p> <p>Only the style of <h2> is defined in inline as <h2 style=" color: green">. All those styles are applied to an web page. What is the color of text <h1> and <h2>?</p> <p>(1) Yellow,blue</p> <p>(2) Yellow,green</p> <p>(3) Red, green</p> <p>(4) Red,blue</p>	CO1	(3)
	<u>MCQ</u>	<p>The browser window is divided into column wise with the help of frameset tag and the code is <frameset cols=" 25%,50%,*" > . Which is correct code for the same division using decimal notation?</p> <p>(1)<frameset cols=" 1*,2*,*" ></p> <p>(2)<frameset cols=" 1*,2*,1*" ></p> <p>(3)<frameset cols=" *1,*2,*1" ></p>	CO1	(2)

		(4)<frameset cols=" 1.0,2.0,1.0" >		
	<u>MCQ</u>	<p>The web designer decides to make an image KIIT.jpg as link. What is the correct HTML code?</p> <p>(1) </p> <p>(2) </p> <p>(3) ></p> <p>(4) </p>	CO1	(2)
	<u>MCQ</u>	<p>In an web page, there is a link named as BOTTOM which is displayed at top of the page and when the link is clicked , the bottom part of the page will be displayed. Then whatHTML code will be written at top and bottom part of the web page?</p> <p>(1) BOTTOM</p> <p style="padding-left: 40px;"></p> <p>(2) BOTTOM</p> <p style="padding-left: 40px;"></p> <p>(3) BOTTOM</p> <p style="padding-left: 40px;"></p> <p>(4) BOTTOM</p> <p style="padding-left: 40px;"></p>	CO1	(1)
<u>Q.No:3</u>	<u>MCQ</u>	<p>What makes java a robust language?</p> <p>(1) Bytecode and JVM</p> <p>(2) Exception handling and automatic garbage collection</p> <p>(3) Exception handling and byte code</p> <p>(4) JVM and automatic garbage collection</p>	CO2	(2)

	<u>MCQ</u>	<p>In java, what is size of an unicode character in terms of byte?</p> <p>(1) 1</p> <p>(2) 2</p> <p>(3) 4</p> <p>(4) 6</p>	CO2	(2)
	<u>MCQ</u>	<p>Which type of variable is used to implement dynamic method dispatch?</p> <p>(1) Interface reference variable</p> <p>(2) Super class reference variable</p> <p>(3) Sub class reference variable</p> <p>(4) Any variable</p>	CO2	(2)
	<u>MCQ</u>	<p>Which type of variable is used to implement dynamic method look up?</p> <p>(1) Interface reference variable</p> <p>(2) Super class reference variable</p> <p>(3) Sub class reference variable</p> <p>(4) Any variable</p>	CO2	(1)
<u>Q.No:4</u>	<u>MCQ</u>	<p>What is the just parent class of predefined Applet class?</p> <p>(1) Window</p> <p>(2) Panel</p> <p>(3) Container</p> <p>(4) Component</p>	CO5	(2)
	<u>MCQ</u>	<p>Which life cycle methods of applet are called once?</p> <p>public void init()</p> <p>(1) init() and start()</p> <p>(2) start() and stop()</p> <p>(3) init() and destroy()</p> <p>(4) destroy() and stop()</p>	CO5	(3)

	MCQ	In which class, public void add(Component) method is defined? (1) Applet (2) Graphics (3) Component (4) Container	CO5	(4)
	MCQ	Which attribute of <applet> is used to specify the applet .class file? (1) src (2) code (3) link (4) href	CO5	(2)
Q.No:5	MCQ	JRE displays an exception Java.lang.ArithmeticException / : by zero at Demo.main(Demo.java:4) What does the bold word stands for? (1) .class file name and source file name (2) source name and .class file name (3) both are .class files (4) both are .java files	CO4	(1)
	MCQ	What is the just parent class of Exception? (1) Object (2) RuntimeException (3) Throwable (4) Error	CO4	(3)
	MCQ	Which one is true? (1) try can have multiple catch only (2) try can have multiple finally only (3) try can have single catch and single finally (4) try can have multiple catch and single finally	CO4	(4)
	MCQ	The syntax of throw statement is throw object; (1) object of String (2) Object of throwable (3) Object of System (4) Object of Scanner	CO4	(2)
Q.No:6	MCQ	class A { int i=10;} class B {int i=20;} class Demo{ public static void main(String x[]){ A a= new B();	CO3	(3)

		System.out.println(a.i);} } (1) 20 (2) Exception (3) 10 (4) Compilation error		
	MCQ	class A { static { System.out.print("B");} class B extends A { static {System.out.print("A");} class Demo{ public static void main(String x[]){ new B(); } } (1) AB (2) BA (3) Exception (4) Compilation error	CO3	(2)
	MCQ	class A { A(){ } class B extends A{ B(){ System.out.print("A"); super(); System.out.printl("B");} class Demo{ public static void main(String x[]){ new B(); } } (1) A (2) AA (3) Compilation error (4) exception	CO3	(3)
	MCQ	class A{ public static void main(int x){ System.out.print("one."); } public static void main(int x,int y){ System.out.print("two"); } public static void main(String a[]){ main(1); main(2,3);} (1) Compilation error (2) Exception (3) Onetwo (4) one	CO3	(3)

Q.No:7	MCQ	<p>Write output.</p> <pre>class A { A(){ }public String toString(){ return "D"; } public static void main(String x[]){ A []p= new A[1]; int i; for (i=0; i<p.length; i++){ System.out.println(p[i]) ; } } }</pre> <p>(1) D (2) Null (3) Compilation Error (4) Exception</p>	CO4	(2)
	MCQ	<p>Write output.</p> <pre>String S1="KIIT"; String S2= new String(S1); String S3=S2; System.out.print(S1==S2 +","); System.out.print(S2==S3+","); System.out.print(S3==S1);</pre> <p>(1) false,true,false (2) true,false,false (3) True,true,false (4) else,false,true</p>	CO4	(1)
	MCQ	<p>Write output.</p> <pre>class A { public static void main(String x[]){ try { int p=2; int q=p/0; }catch(Exception e){ System.out.print ("Error" + " ");} }catch(Exception e){ System.out.print ("Div Error");} } }</pre> <p>(1) Error (2) Div Error (3) Compilation Error (4) Error Div Error</p>	CO4	(3)
	MCQ	<p>Write output.</p> <pre>class A { public static void main(int x){System.out.print("1");} public static void main(char x){System.out.print("2"); }</pre>	CO2	(4)

		<pre>public static void main(String z[]){ main(10); main('s'); } }</pre> <p>(1) Compilation Error</p> <p>(2) Exception</p> <p>(3) 1</p> <p>(4) 12</p>		
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SECTION-B(Answer Any Three Questions. Each Question carries 12 Marks)

Time: 1 Hour and 30 Minutes

(3×12=36 Marks)

<u>Question No</u>	<u>Question</u>	<u>CO Mapping</u> <u>(Each question should be from the same CO(s))</u>
<u>Q.No:8</u>	<p>a) Implement a Feedback Form using HTML and the form has the following details</p> <p>Roll No : Text Field</p> <p>Semester : Radio Button(2nd /4th /6th /8th)</p> <p>Subject Type : Drop down list (Core / Elective)</p> <p>Subject Name : Text Field</p>	CO1

	<p>Feedback : Text area</p> <p>Submit : Submit Button.</p> <p>The form data must be forwarded to a server program address http://localhost:8080/Feedback.java using post method.</p> <p>b) Explain absolute link, relative link and in-text link with suitable examples.</p>	
	<p>a) Implement a Registration Form using HTML and the form has the following details</p> <p>Name : Text Field</p> <p>Aadhar No : Text Field</p> <p>Gender : Radio Button(Male /Female^h)</p> <p>Area Type : Drop down list (Urban / Rural)</p> <p>Address : Text area</p> <p>Submit : Submit Button.</p> <p>The form data must be forwarded to a server program address http://localhost:8080/Registration.ava using post method.</p> <p>b) Explain different types of style sheets with example.</p>	
	<p>a) Implement a Hospital Registration Form using HTML and the form has the following details</p> <p>Name : Text Field</p> <p>Mobile No : Text Field</p> <p>Gender : Radio Button(Male /Female)</p> <p>Department : Drop down list (Med/ENT/ORTHO)</p>	

	<p>Address : Text area</p> <p>Submit : Submit Button.</p> <p>The form data must be forwarded to a server program address http://localhost:8080/Registration.ava) using post method.</p> <p>b) Explain different types lists used in HTML with suitable examples.</p>	
<u>Q.No:9</u>	<p>a) Implement a class Rational having data members numerator and denominator. Include appropriate constructors and following methods</p> <p>(i) Rational add(Rational) : is used to add two rational objects.</p> <p>(ii) void show() : is used to display the rational object in numerator /denominator (for example 1 / 2) format.</p> <p>Write an application class Demo where the functionality of Rational class is tested.</p> <p>b) Explain the use of super and this keyword with example.</p> <p>a) Implement a class Complex having data members real and imaginary. Include appropriate constructors and following methods</p> <p>(i) Complex add(Complex) : is used to add two Complex objects.</p> <p>(i) void show() : is used to display the complex object in a+ib where a and b are real and imaginary respectively.</p> <p>Write an application class Demo where the functionality of Complex class is tested.</p> <p>b)Explain the use of final keyword with</p>	CO2

	<p>example.</p> <p>a) Implement a class Distance having data members Meter and Centimeter. Include appropriate constructors and following methods</p> <p>(i) Distance add(Distance) : is used to add two Distance objects.</p> <p>(ii) void show() : is used to display the Distance object in a meaningful way. Write an application class Demo where the functionality of Distance class is tested.</p> <p>b) Explain the functionality static method, static class and static block with examples.</p>	
<u>Q.No:10</u>	<p>a) Create an user defined exception named CheckArgumentException to check the number of arguments passed through command line. If the number of arguments is less than five, then throw the CheckArgumentException, else print the addition of all the five numbers.</p> <p>b) Discuss the life cycle methods of an applet</p> <p>a) WAP to copy from one file to another file where the file names are given through command line arguments.</p> <p>b) Different between method overloading and method overriding with examples. .</p> <p>a) WAP to implement an applet which consists of two buttons YES and NO .The caption of button is displayed in the applet window when the corresponding button is pressed. Write down necessary HTML code to execute the applet.</p> <p>b) What is inner class? Explain it's property with example.</p>	CO4, CO6
<u>Q.No:11</u>	<p>a) Implement a package SUMMATION having a class Number. The class has a data member value. Include appropriate constructors and a method is_Even() which returns true if value is</p>	CO3,C O5,

	<p>even otherwise false. Write an application class Demo where the above package is imported. Demo class is used to calculate the square for the even and cube for the odd number.</p> <p>b) Explain the access specifier private, protected and public with example.</p>	
	<p>a) Define an interface PersonalLoan which has a method float find_Interest(float balance, int Year). Two different bank classes Bank1 and Bank2 implement the interface. Each class has its own interest rate as static member (5% for Bank1 and 6% for Bank2.) Define an application class Demo where the interest of each bank is calculated by using the concept of run time polymorphism.</p> <p>b) Explain three constructors from String and StringBuffer class with examples.</p>	
	<p>a) Develop a java code which will accept a String from the keyboard and the code will do the following operations.</p> <p>(i) Find the reverse of given string</p> <p>(ii) Find a substring from given string</p> <p>b) Explain exception handling mechanism in java.</p>	