



KIIT Deemed to be University
Online End Semester Examination(Autumn Semester-2020)

Subject Name & Code: Web Technology (IT-2003)**Applicable to**
courses:B.Tech.(ECS)

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>		<p>Write the output of the following code -</p> <pre>public class sft{ public static void main (String arg[]) { int a=4, b=23; a= (a<<4)+(b>>3); b= (a>>2)*(b>>6); System.out.println("Values are :"+a+" "+b); } }</pre> <p>a)Values are : 65 0 b)Values are : 0 43 c)Values are : 66 0 d)Values are : 0 44</p>	CO2	c
		<p>Write the output of the following code -</p>		b

		<pre> public class sft1 { public static void main (String arg[]) { int a=9, b=23; a= (a<<4)+(b>>3); b= (a>>2)*(b>>4); System.out.println("Values are :"+a+" "+b); } } </pre> <p> a)Values are : 144 34 b)Values are : 146 36 c)Values are : 36 140 d)Values are : 140 36 </p>		
		<p>Write the output of the following code -</p> <pre> public class sft2 { public static void main (String arg[]) { int a=10, b=22; a= (a<<4)+(b>>3); b= (a>>2)*(b>>4); System.out.println("Values are :"+a+" "+b); } } </pre> <p> a)Values are : 160 40 b)Values are : 162 40 c)Values are : 166 42 d)Values are : 44 162 </p>		b
		<p>Write the output of the following code -</p> <pre> public class sft3 { public static void main (String arg[]) { int a=8, b=22; a= (a<<4)+(b>>3); b= (a>>2)*(b>>4); System.out.println("Values are :"+a+" "+b); } } </pre> <p> a)Values are : 120 30 b)Values are :32 120 c)Values are :32 130 d)Values are : 130 32 </p>		d
<u>Q.No:2</u>		<p>If an implementing class does not implement all the methods of the interface then</p> <p> a) the class has to be declared as static b) the class will compile </p>	CO4	c

		c) the class has to be declared as abstract d) the class has to be declared as final		
		Which of the following statement is true in Java - a) Interface can exist with only data members b) Interface should contain some abstract methods c) Interface can not exist without abstract methods d) None of the above		a
		Which of the following statement is true in Java - a) A class can extend from multiple classes b) A class can extend from multiple interfaces c) An interface can extend from multiple classes d) An interface can extend from multiple interfaces		d
		The data members of an interface are - a) static only b) final only c) static and final only d) None of above		c
Q.No:3		Write the output of the following code - <pre> class B32 { public static void main (String args[]){ String s1= "pqr"; String s2= new String("pqR"); System.out.println("s1 compare s2 :"+ s1.compareTo(s2)); System.out.println("s1 == s2 :"+(s1==s2)); } } </pre> a) 0 true b) 30 true c) 32 false d) 32 true	CO5	c
		Write the output of the following code - <pre> class B3 { public static void main (String args[]){ String s1= "abc"; String s2= new String(s1); System.out.println("s1 equal s2 :"+ s1.equals(s2)); System.out.println("s1 == s2 :"+(s1==s2)); } } </pre> a) true true b) true false c) false true d) false false		b

		<p>Write the output of the following code -</p> <pre> class B32 { public static void main (String args[]){ String s1= "pqr"; String s2= new String("pqR"); System.out.println("s1 compare s2 :"+ s1.compareTo(s2)); System.out.println("s1 equal s2 :"+ s1.equals(s2)); } } </pre> <p>a) 32 false b) 30 true c) true 30 d) false 32</p>		a
		<p>Write the output of the following code -</p> <pre> class B33 { public static void main (String arg[]){ String s1= "pqr"; String s2= new String("pqR"); System.out.println("s1 compare s2 :"+ s1.compareTo(s2)); System.out.println("s1 equal s2 :"+ s1.equalsIgnoreCase(s2)); } } </pre> <p>a) 26 false b) 30 true c) false 32 d) 32 true</p>		d
<u>Q.No:4</u>		<p>Which of the following statement is true in Java -</p> <p>a) ArrayStoreException is a checked exception b) NoSuchMethodException is a checked exception c) NoSuchMethodException is an unchecked exception d) NullPointerException is checked exception</p>	CO4	b
		<p>Which of the following statement is false in Java -</p> <p>a) catch block is optional b) finally block is optional c) finally block is compulsory d) One try block can have both catch & finally block</p>		c
		<p>Which of the following statement is true in Java -</p> <p>a) NegativeArraySizeException is a checked exception b) ClassNotFoundException is an unchecked exception c) ClassNotFoundException is a checked exception d) NullPointerException is a checked exception</p>		c
		<p>Which of the following statement is false in Java -</p> <p>a) One try block can have multiple catch block b) One try block can have one finally block c) One try block can have both catch & finally block</p>		d

		d) One try block can have multiple finally block d)		
Q.No:5		Which is the correct sequence of method calls of an applet? a. start,init,paint,destroy,stop b. paint,start,stop,init,destroy c. init,start,paint,stop,destroy d. None of the above	CO6	c
		What are the packages required to have an applet with a line in it - a) java.applet, java.awt b) java.applet, java.graphics c) java.applet, java.io d) java.Applet, java.awt		a
		What are the packages required to have an applet with a circle in it - a) java.Applet, java.awt b) java.applet, java.graphics c) java.io, java.applet d) java.applet, java.awt		d
		When we restore an applet after minimization, the following methods are executed - a) init, start, paint only b) init,paint only c) stop,paint only d) start,paint only		d
Q.No:6		What is the syntax for making a photo as a link in HTML ? a) <a href> b) <a href> c) <a href> d) <a href> 	CO1	c
		What is the syntax for making a photo as a link in HTML ? a) <a href> b) <a href> c) <a href> d) <a href> 		d
		The 'get' value of method attribute of form tag in HTML means - a) insecure way of getting information from server b) secure way of getting information from server c) insecure way of sending information to server		c

		d) secure way of sending information to server		
		The 'post' value of method attribute of form tag in HTML means - a) insecure way of getting information from server b) secure way of getting information from server c) insecure way of sending information to server d) secure way of sending information to server		d
<u>Q.No:7</u>		Static polymorphism is achieved in Java by - a) using static keyword b) method overloading c) using interface d) None of the above	CO3	b
		Static polymorphism is achieved in Java by - a) method overloading b) using static keyword c) using abstract keyword d) None of the above		a
		Dynamic polymorphism is achieved in Java by - a) using interface b) static keyword c) method overriding d) None of the above		c
		Dynamic polymorphism is achieved in Java by - a) method overriding b) using interface c) final keyword d) None of the above		a

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</u>
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		<u>question should be from the same CO(s)</u>
<u>Q.No:8</u>	<p>A> Create a html form using the following fields-[7]</p> <p> Name -textbox Address -textarea Password -password DateOfBirth -select option Gender -radio button Hobbies -checkbox Submit -button </p> <p>B> Discuss any two usage of 'final' keyword in Java with example. [5]</p> <p>A>What is a stylesheet ? Write the code for a style sheet with following effects - body background color is pink, paragraph color is maroon, H1 color is red, font size is 20 pt. Also write the code to attach this stylesheet to a web page. [7]</p> <p>B> In case of multi-level inheritance how constructors are called if an object of derived class is created. Explain with example. [5]</p> <p>A>Design the web page using frames in HTML which will divide the page into three frames called top,left and right.The top frame will display the title of the web page. The left frame will have two hyperlinks, B.Tech. and M.Tech. When the user clicks on any of these link, the corresponding page will be displayed in the right frame. [7]</p> <p>B>Discuss any two usage of 'static' keyword in Java with example. [5]</p>	CO1
<u>Q.No:9</u>	<p>A) Write a program to find the left shifted number of the user entered number by two digits. If the user entered number is negative, then throw an user defined exception - NegativeNumberException and display an understandable message. [6 X 2]</p> <p>B>Define an interface 'transaction' in Java with two methods – deposit() and withdraw(). And define two classes – HDFC and ICICI which use above interface. Write the driver code to check the functionality of both the methods using object of both the classes.</p> <p>A> Define a class Bank with two methods such as deposit() and withdraw(). Deposit method adds the entered amount to the balance whereas Withdraw method deducts the entered amount from the balance. If the user entered amount is negative then raise an user defined exception – NegativeAmountException and handle it. [6 X 2]</p> <p>B> How can multiple inheritance be achieved in Java ? Explain with suitable example.</p> <p>A> Write a program which will take Aadhar number and age from user who has come for vaccination. If the user entered age is below 18 then raise an user defined exception – NotEligibleException and handle it. [6 X 2]</p>	CO4

	<p>B> Define an interface 'calculate' in Java with two methods – diagonal() and area(). And define two classes – right-angled and rectangle which use above interface. Write the code to find the diagonal and area of right-angled triangle and the rectangle using object of each class with two arguments (base & height).</p>	
<p><u>Q.No:</u> <u>10</u></p>	<p>A> Write a program to draw a solid cylinder in an applet. Also write the required HTML code. [6 X 2] B> Appraise the sequence of execution of methods in Applet with suitable example.</p> <p>A> Write a program to draw a solid cone in an applet. Also write the required HTML code. [6 X 2] B> Explain the life cycle of applet with suitable example.</p> <p>A> Write a program to draw a smiley face in an applet. Also write the required HTML code. [6 X 2] B> Illustrate the technique of parameter passing from HTML to applet with suitable example.</p>	CO6
<p><u>Q.No:</u> <u>11</u></p>	<p>A> Discuss any six methods of StringBuffer class with example. [6 X 2] B> Write a program to find number of 'the' word present in a file whose name is taken from user.</p> <p>A> Illustrate the following methods on two user entered strings with suitable example. [6 X 2] i) equals ii) compareTo iii) replace iv) concat B> Write a program to find number of words present in a file whose name is taken from user.</p> <p>A> Illustrate the following methods of StringBuffer class on an user entered string with suitable example. [6 X 2] i) capacity ii) setLength iii) replace iv) delete B> Write a program to copy the content of a file onto the same file using Random access file.</p>	CO5