

E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai) Nagore Post, Nagapattinam – 611 002, Tamilnadu. Rev.1 COE/2020/QB/MC O

SUBJE	SUBJECT CODE AND NAME:1902IT402 & JAVA PROGRAMMING							
Academic Year 2020-2021		Ougstion Donly		Programme/Branch	B.Tech-IT			
Year / S	Semester	II/IV	Question Bank		Course Coordinator	Dr.S.MANIKANDAN		
Course	Objective			Course Ou	tcomes			
1.	Enable learne	ers to write Jav	a programming	At the end of	of this course, students will	able to,		
	using Object Oriented Programming Concepts			CO1: Unde	rstand the basic concepts of	Java Programming		
	Driven and Strings			CO2: Develop Java program using classes, objects, and encapsulation				
	3. Familiar with Swings concepts using Java4. Learn to think Java program using real time concepts and paradigms		CO3: Design Inheritance and Interface using Java CO4: Implement Event Handler, JDBC and Exception Handling concepts using Java					
				CO5: Creat	e real time application using	g Java		

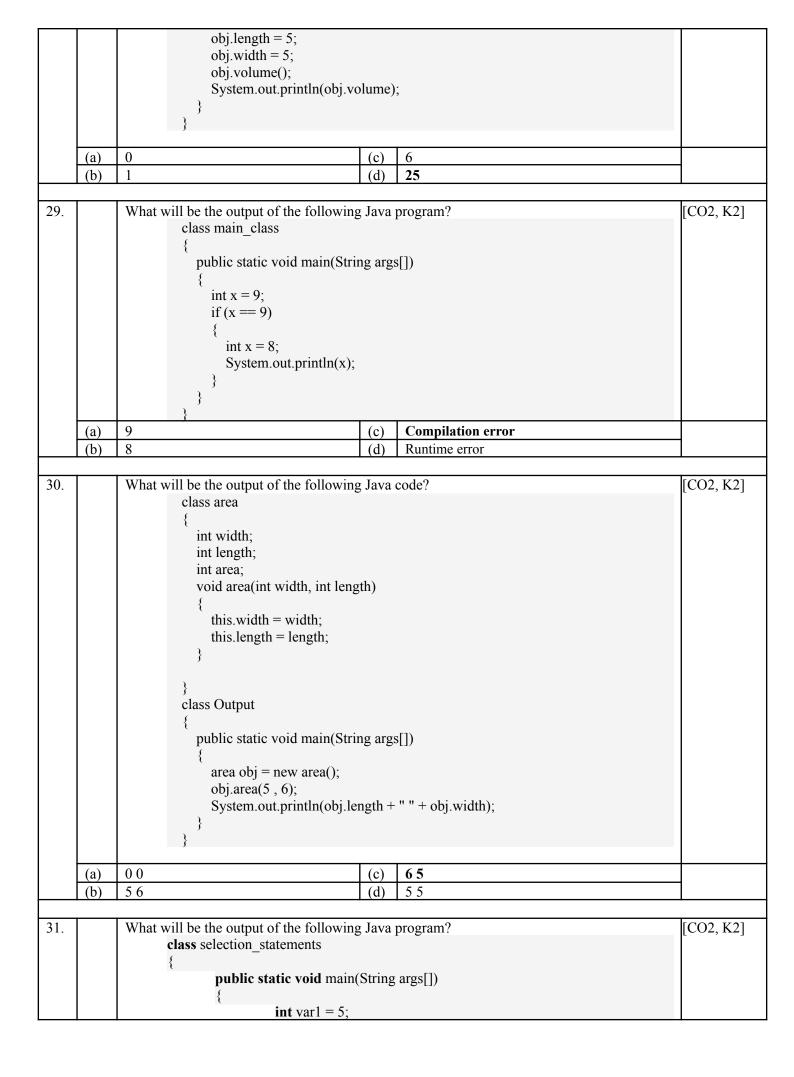
Module 1: Classes and Objects

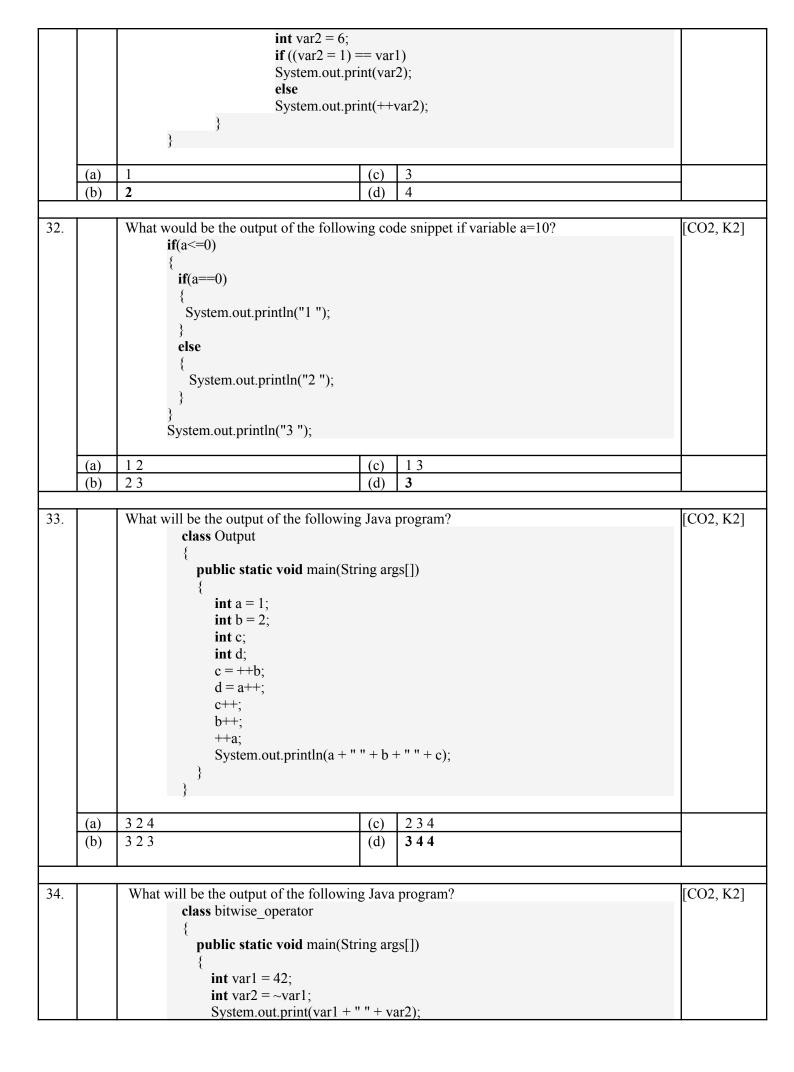
Q .		[CO#, BTL]			
No.				ESTIONS	
1.	Whi	ch concept of Java is a way of converting	real w	orld objects in terms of class?	[CO1, K1]
	(a)	Polymorphism	(c)	Abstraction	
	(b)	Encapsulation	(d)	Inheritance	
2.	Whie	ch concept of Java is achieved by combin	ing me	thods and attribute into a class?	[CO1, K1]
	(a)	Encapsulation	(c)	Abstraction	[001,111]
	(b)	Polymorphism	(d)	Inheritance	
3.	-	ch component is used to compile, debug a			[CO1, K1]
	(a)	JVM	(c)	JRE	
	(b)	JIT	(d)	JDK	
	Wha	at is the extension of compiled java classe	s?		[CO2, K1]
	(a)	iava	(c)	.class	, , , , , , , , ,
	(b)	.js	(d)	.txt	
	T xx 71				FG02 W11
5.		t is byte code in Java?	1	T	[CO2, K1]
	(a)	Code generated by a Java compiler	(c)	Name of Java source code file	
	(b)	Code generated by a Java Virtual Machine	(d)	Block of code written inside a class	
	1				<u> </u>
6.		ch variables are created when an object is coved when the object is destroyed?	create	d with the use of the keyword 'new' and	[CO2, K]
	(a)	Local variables	(c)	Class Variables	
	(b)	Instance variables	(d)	Static variables	

7.		is used to find and fix bugs in the Java	nrograi	ms.	[CO1, K1]
	(a)	JVM	(c)	JDK	, , , , , , , , ,
	(b)	JRE	(d)	JDB	
	(-)		(/	, -	·
8.		uate the following Java expression, if x=3+y-y+z+x++	B, y=5,	and z=10:	[CO2, K2]
	(a)	24	(c)	20	
	(b)	23	(d)	25	
			-		-
9.	What	t do you mean by nameless objects			[CO2, K1]
	(a)	An object created by using the new keyword.	(c)	An object without having any name but having a reference	
	(b)	An object of a superclass created in the subclass.	(d)	An object that has no reference.	
10.	What	t is false about constructor?			[CO2, K1]
	(a)	Constructors cannot be synchronized in Java	(c)	Constructor can have a return type	, , ,
	(b)	Java does not provide default copy constructor	(d)	"this" and "super" can be used in a constructor	
11.	Whic	h of the following is a method having sar	me nan		[CO2, K1]
	(a)	Finalize	(c)	Class	
	(b)	Delete	(d)	Constructor	
12.	Whic	h keyword is used by the method to refer	to the	object that invoked it?	[CO2, K1]
	(a)	Import	(c)	Catch	
	(b)	Abstract	(d)	This	
13.		th of the following is a valid declaration of			[CO2, K1]
	(a)	Box obj = new Box();	(c)	Box obj = new Box;	
	(b)	obj = new Box();	(d)	new Box obj;	
14.	What	class main_class { public static void main(String arg	-	m?	[CO2, K2]
		<pre>int x = 9; if (x == 9) { int x = 8; System.out.println(x); } } </pre>			
	(a)	9	(c)	Compilation error	
	(b)	8	(d)	Runtime error	
15.		t is the stored in the object obj in following obj;	ng lines	s of Java code?	[CO2, K1]
	(a)	Memory address of allocated memory of object	(c)	Any arbitrary pointer	
	(b)	NULL	(d)	Garbage	

16.	Whic	th of the below is invalid identifier with	the mai	n method?	[CO2, K1]
10.	(a)	Public	(c)	private	002,111
	(b)	Static	(d)	final	
	/		/	•	•
17.	What	is use of interpreter?			[CO2, K1]
	(a)	They convert bytecode to machine	(c)	They are intermediated between JIT and	
		language code		JVM	
	(b)	They read high level code and	(d)	It is a synonym for JIT	
		execute them			
18.	Whic	th of the following is not OOPS concept	in Iava	?	[CO1, K1]
10.	(a)	Inheritance	(c)	Polymorphism	
	(b)	Encapsulation	(d)	Compilation	
	(0)	2 Divergentation	(4)	- Companion	<u>.</u>
19.	What	will be the output of the following Java	code?		[CO2, K2]
		class increment {			
		public static void main(String arg	gs[])		
		{			
		$\inf g = 3;$			
		System.out.print(++g * 8);			
		}			
		<i>§</i>			
	(a)	25	(c)	32	
	(b)	24	(d)	33	
	(-/		1 (3.7		
20.	Whic	ch of these jump statements can skip pro	cessing	the remainder of the code in its body for a	[CO2, K1]
	partio	cular iteration?			_
	(a)	Break	(c)	exit	
	(b)	Return	(d)	continue	
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21.		th method can be defined only once in a		i e	[CO1, K1]
	(a)	main method	(c)	static method	
	[(b)	finalize method	<u> </u>	private method	
22.	What	t would be behaviour if the constructor h	ng o rot	urn typa?	[CO2, K1]
22.	(a)	Compilation error	(c)	Compilation and runs successfully	[CO2, K1]
	(b)	Runtime error	(d)	Only String return type is allowed	
	1 (0)	1 Continue Onto	(u)	1 omy burns return type is anowed	
23.	From	where break statement causes an exit?			[CO1, K1]
- *	(a)	Only from innermost loop	(c)	Only from innermost switch	- ,]
	(b)	Terminates a program	(d)	From innermost loops or switches	
				· · · · · · · · · · · · · · · · · · ·	
24.	Whic	h of these is used to access a member of	f class b	pefore object of that class is created?	[CO2, K1]
	(a)	Public	(c)	Static	
	(b)	Private	(d)	Protected	
25.				a class if no access specifier is used for it?	[CO2, K1]
	(a)	Private	(c)	public, within its own package	_
	(b)	Public	(d)	Protected	
				D.C.D.	
				RT-B	
		2 N	IAKK (QUESTIONS	
26.		t will be the output of the following	g progr	ram?	[CO2, K2]
		c class Test {			
_			·		·

```
public static void main(String[] args) {
         int count = 1;
         while (count <= 15) {
         System.out.println(count % 2 == 1 ? "***" : "+++++");
                // end while
               // end main
             15 times ***
                                                            8 times *** and 7 times +++++
                                                      (c)
      (a)
             15 times +++++
      (b)
                                                      (d)
                                                            Both will print only once
27.
      What will be the output of the following Java program?
                                                                                                            [CO2, K2]
                class box
                   int width;
                   int height;
                   int length;
                   int volume;
                   void volume(int height, int length, int width)
                      volume = width*height*length;
                class Prameterized_method
                   public static void main(String args[])
                     box obj = new box();
                     obj.height = 1;
                     obj.length = 5;
                     obj.width = 5;
                     obj.volume(3,2,1);
                     System.out.println(obj.volume);
      (a)
             0
                                                      (c)
                                                            1
      (b)
             6
                                                            25
                                                      (d)
             What will be the output of the following Java program?
                                                                                                            [CO2, K2]
28.
                       class box
                         int width;
                         int height;
                         int length;
                         int volume;
                         void volume()
                            volume = width*height*length;
                       class Output
                         public static void main(String args[])
                            box obj = new box();
                            obj.height = 1;
```





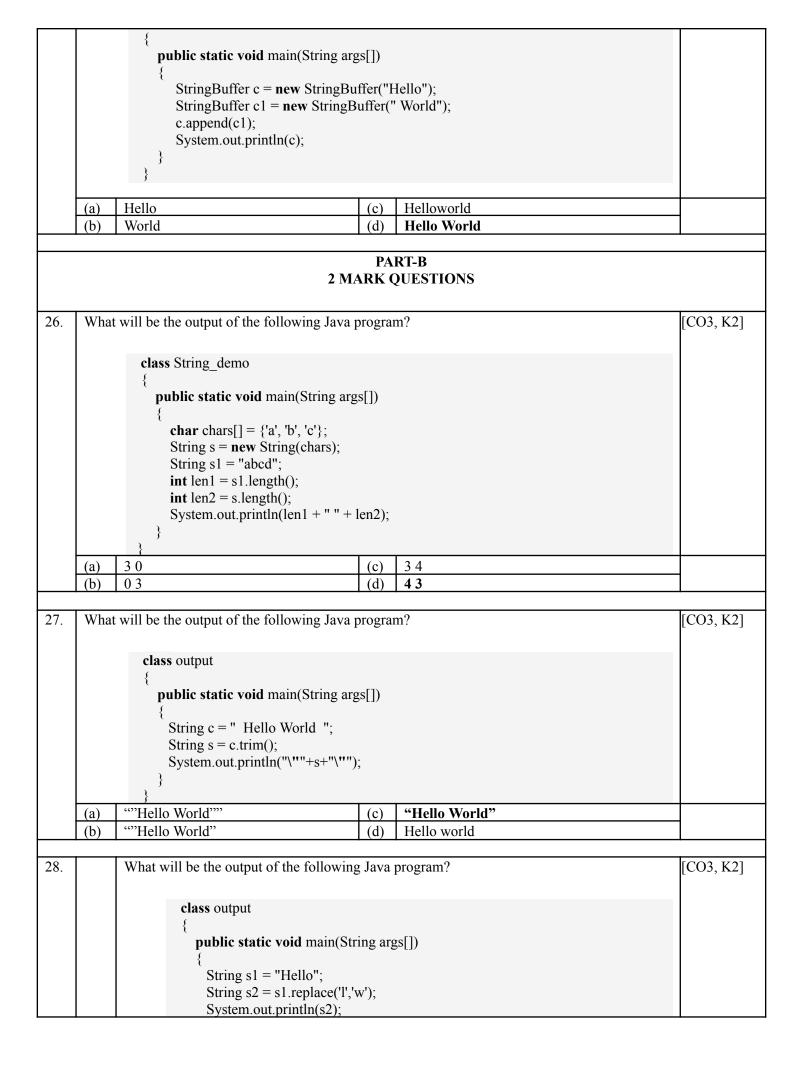
	(a) (b)	42 42 43 43	(c) 42 -43 (d) 42 43		
35.		class rightshift_c	roid main(String args[])	[CO2, K	2]
	(a) (b)	10 5	(c) 2 (d) 20		

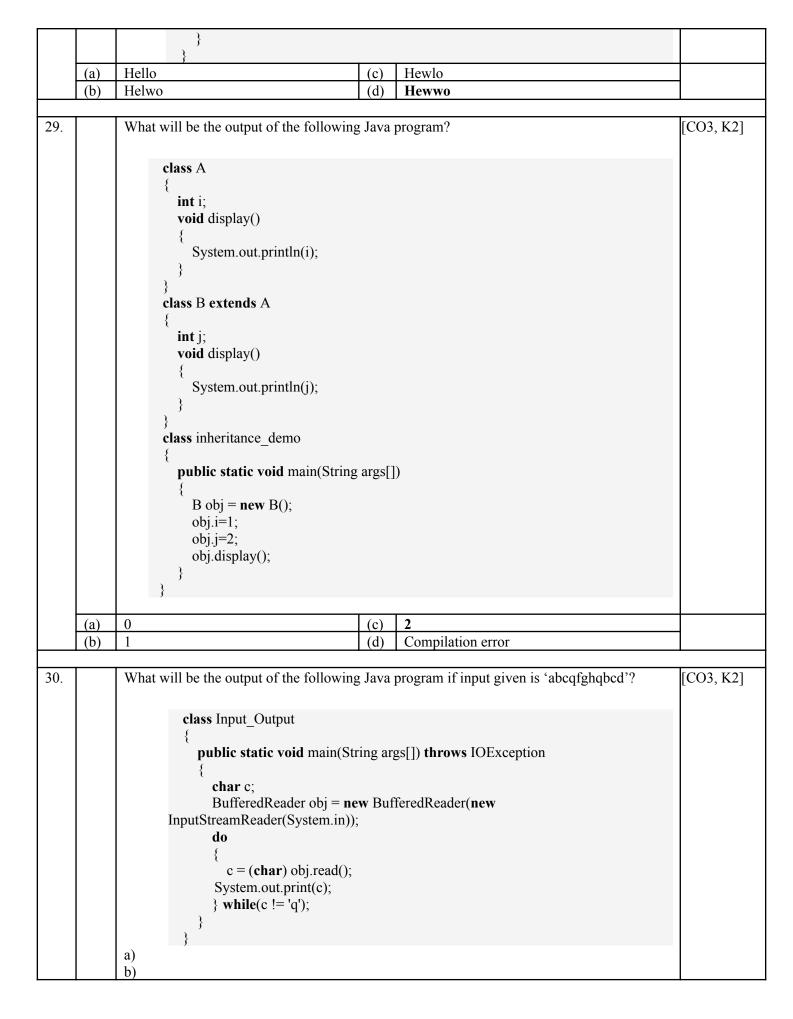
ModuleII: ARRAYS, STRINGS, INHERITANCE

Q.			PART-		[CO#, BTL]
No 1.	Whi	ch of these is an incorrect array declaration		ESTIONS	[CO2 V1]
1.		int arr[] = new int[5]		int arr[] = new int[5]	[CO3, K1]
	(a) (b)		(c) (d)	int arr[] = int [5] new	
	[(b)	int [] arr = new int[5]	(u)	Int arrij – int [5] new	
2.	Whic	ch of these is necessary to specify at time	of arra	y initialization?	[CO3, K1]
	(a)	Row	(c)	Both Row and Column	
	(b)	Column	(d)	None of the mentioned	
3.	Wha	t is the type of variable 'b' and 'd' in the f	followi	ing Java snippet?	[CO3, K1]
	(a)	'b' and 'd' are int	(c)	b' is int variable; 'd' is int array	
	(b)	'b' and 'd' are arrays of type int	(d)	d' is int variable; 'b' is int array	
			-		
4.	Wha	t will be the output of the following Java	code?		[CO3, K2]
		int arr[] = new int [5];			
		System.out.print(arr);			
	(a)	0	(c)	00000	
	(b)	value stored in arr[0].	(d)	Garbage value	
			-		
5.	How	to sort an array?			[CO3, K1]
	(a)	Array.sort()	(c)	Collection.sort()	
	(b)	Arrays.sort()	(d)	System.sort()	
6.		ch of these class is superclass of String an			[CO3, K1]
	(a)	java.util	(c)	ArrayList	
	(b)	java.lang	(d)	None of the mentioned	
7.	Wha	t will s2 contain after following lines of Ja	ava co	de?	[CO3, K2]

		ng s1 = "one"; g s2 = s1.concat("two")			
	(a)	One	(c)	Onetwo	_
	(b)	Two	(d)	Twoone	
8.	Whie	h of these method of class String is used to	40 02244	act a simple above too from a String abject?	ICO2 I/11
8.	(a)	CHARAT()	(c)	act a single character from a String object? charAt()	[CO3, K1]
	(b)	chatat()	(d)	ChatAt()	†
	(0)	chatat()	(u)	Char H()	<u> </u>
9.	Whic	h of these constructors is used to create a	n empi	ty String object?	[CO3, K1]
	(a)	String()	(c)	String(0)	
	(b)	String(void)	(d)	None of the mentioned	
10.		h of this keyword must be used to inherit			[CO3, K1]
	(a)	Super	(c)	This	
	(b)	extent	(d)	Extends	
11.	W/I.:	oh of these is someout avery of inheriting als		an along D9	[CO2 V1]
11.	(a)	ch of these is correct way of inheriting cla class B + class A {}	(c)	class B extends A {}	[CO3, K1]
	(a)	Class B + Class A {}		class D extends A {}	
	(b)	class B inherits class A {}	(d)	class B extends class A {}	1
	(0)	, , , , , , , , , , , , , , , , , , , ,	()	1	•
12.	All c	lasses in Java are inherited from which cla	ass		[CO3, K1]
	(a)	java.lang.class	(c)	java.class.object	
	(b)	java.class.inherited	(d)	java.lang.Object	
13.	If sup		name,	which keyword should be used to use super	[CO3, K1]
	(a)	super	(c)	upper	
	(b)	this	(d)	classname	
			/		•
14.	Whic	h of the following is used for implementi	ng inh	eritance through an interface?	[CO3, K1]
	(a)	inherited	(c)	extends	
	(b)	using	(d)	implements	
15.		would be the result if a class extends two ignature? Lets assume that the class is no		Faces and both have a method with same name ementing that method.	[CO3, K1]
	(a)	Runtime error	(c)	Code runs successfully	
	(b)	Compile time error	(d)	First called method is executed successfully	
16.	Whic	h of these is a type of stream in Java?			[CO3, K1]
	(a)	Integer stream	(c)	Byte stream	
	(b)	Short stream	(d)	Long stream	
17	7771 *	-h -Cdl			FCO2 1/13
17.		ch of these class is used to read from byte			[CO3, K1]
	(a) (b)	InputStream BufferedInputStream	(c) (d)	ArrayInputStream ByteArrayInputStream	\dashv
	(U)	Dunctedinputsucalli	[(u)	русанаутирисисан	1
18.	What	will be the output of the following Java p	orograi	m?	[CO3, K2]
		<pre>class output { public static void main(String arg</pre>	gs[])		

		{ StringBuffer c = new StringBu	ffer("H	Hello");	
		System.out.println(c.length());	`	,	
		}			
	(a)	4	(c)	6	
	(b)	5	(d)	7	1
19.		od in its superclass?	ubclas	ss having same name & type signature as a	[CO3, K2]
	(a)	Method overloading	(c)	Method hiding	4
	(b)	Method overriding	(d)	None of the mentioned	
20.	Whic	h of these keywords can be used to preve	nt Met	hod overriding?	[CO3, K1]
	(a)	static	(c)	protected	
	(b)	constant	(d)	Final	
21.		1. public interface Status 2. { 3. /* insert qualifier here */ int N 4. }	d"	id data-type attributes/qualifiers among "final, ALUE = 10;	[CO3, K2]
	(a)	final, native, private	(c)	final, static, public	_
	(b)	final, static, protected	(d)	final, private, abstract	
22.	Whi	ch exception is thrown by read() method?			[CO3, K1]
22.	(a)	IOException	(c)	SystemException	[CO3, K1]
	(b)	InterruptedException	(d)	SystemInputException	1
	(*)		(55)		
23.	Whic	h of these class is used to read characters	and st		[CO3, K1]
	(a)	StringReader	(c)	BufferedStreamReader	_
	(b)	BufferedReader	(d)	InputStreamReader	
24.	What	will be the output of the following Java p	orograi	m?	[CO3, K2]
		<pre>class output { public static void main(String arg { StringBuffer s1 = new StringBu s1.setCharAt(1,x); System.out.println(s1); } }</pre>		Hello");	
	(a)	Xello	(c)	Hxllo	
	(b)	Xxxxx	(d)	Hexlo	
25 1	33.71	711 d		0	EGO2 1/23
25.	What	will be the output of the following Java p	orogra	m?	[CO3, K2]
		class output			





```
c) abcq
             d)
             Abcqfgh
                                                            Abcq
      (a)
                                                      (c)
      (b)
             Abc
                                                      (d)
                                                             Abcqfghq
31.
             What will be the output of the following Java program?
                                                                                                            [CO3, K2]
                       class output
                          public static void main(String args[])
                            String a="hello i love java";
                            System.out.println(indexof('i')+" "+indexof('o')+" "+lastIndexof('i')+"
                     "+lastIndexof('o') ));
             6469
                                                      (c)
                                                             7889
      (a)
      (b)
             5459
                                                      (d)
                                                             4369
             What will be the output of the following Java program?
                                                                                                            [CO3, K2]
32.
                       import java.io.*;
                       class filesinputoutput
                          public static void main(String args[])
                            InputStream obj = new FileInputStream("inputoutput.java");
                            System.out.print(obj.available());
      (a)
             True
                                                      (c)
                                                            prints number of bytes in file
             False
                                                             prints number of characters in the file
      (b)
                                                      (d)
33.
             What will be the output of the following Java program?
                                                                                                            [CO3, K2]
                       class A
                         int i:
                          public void display()
                            System.out.println(i);
                       class B extends A
                         int j;
                          public void display()
                            System.out.println(j);
                       class Dynamic dispatch
```

```
public static void main(String args[])
                            B obj2 = new B();
                            obj2.i = 1;
                            obj2.j = 2;
                            Ar;
                            r = obj2;
                            r.display();
                                                       (c)
      (a)
      (b)
             2
                                                       (d)
                                                             4
34.
             What will be the output of the following Java program?
                                                                                                             [CO3, K2]
                       import java.util.*;
                       class Arraylist
                          public static void main(String args[])
                             ArrayList obj = new ArrayList();
                            obj.add("A");
                            obj.add("B");
                            obj.add("C");
                            obj.add(1, "D");
                            System.out.println(obj);
             [A, B, C, D]
                                                             [A, D, C]
                                                       (c)
       (a)
      (b)
             [A, D, B, C]
                                                       (d)
                                                             [A, B, C]
35.
             What will be the output of the following Java program?
                                                                                                             [CO3, K2]
                        class Output
                          public static void main(String args[])
                             ArrayList obj = new ArrayList();
                            obj.add("A");
                            obj.add("D");
                            obj.ensureCapacity(3);
                            obj.trimToSize();
                            System.out.println(obj.size());
             1
                                                             3
      (a)
                                                       (c)
             2
      (b)
                                                       (d)
```

ModuleIII: EVENT DRIVEN PROGRAMMING

Q.	PART-A	[CO#, BTL]
No	1 MARK QUESTIONS	

1.	Whic	th of these is a mechanism for naming and	l visibi	lity control of a class and its content?	[CO4, K1]
	(a)	Object	(c)	Packages	
	(b)	Interfaces	(d)	None of the Mentioned.	
2.			a class	so that its members can be accessed by a	[CO4, K1]
		rent class in the same package?			
	(a)	Public	(c)	No Modifier	
	(b)	Protected	(d)	All of the mentioned	
	****	1 04 011 : : : : : : : : : : : : : : : : : :			FGQ 4 1713
3.		th of the following is the correct way of in			[CO4, K1]
	(a)	import pkg.	(c)	import pkg.*	\dashv
	(b)	Import pkg.	(d)	Import pkg.*	
4.	Whic	ch of these package is used for graphical u	icar int	arfaca?	[CO4, K1]
4.	(a)	java.applet	(c)	java.awt.image	[CO4, K1]
	(b)	java.awt	(d)	java.io	—
	(0)	java.avvi	(u)	μνα.10	
5.	Whi	ch of this package is used for handling sec	curity 1	related issues in a program?	[CO4, K1]
٥.	(a)	java.security	(c)	java.lang.security	(001,111)
	(b)	java.awt.image	(d)	java.io.security	
	(-)		()	<u> </u>	
6.	Whic	ch of these methods are used to register a	keyboa	ard event listener?	[CO4, K1]
	(a)	eventKeyboardListener()	(c)	addListener()	
	(b)	addKeyListener()	(d)	KeyListener()	
		· · · · · · · · · · · · · · · · · · ·		· ·	
7.	Even	t class is defined in which of these librarie	es?		[CO4, K1]
	(a)	java.io	(c)	java.net	
	(b)	java.lang	(d)	java.util	
8.		th of these class is super class of all the ev	ents?		[CO4, K1]
	(a)	EventObject	(c)	ActionEvent	
	(b)	EventClass	(d)	ItemEvent	
9.		seEvent is subclass of which of these class			[CO4, K1]
	(a)	ContainerEvent	(c)	ComponentEvent	_
	(b)	ItemEvent	(d)	InputEvent	
10	11 771 ·	1 (4) 4 1 (1: 37/. 1	Г	4.1.0	ECO 4 IV 11
10.		ch of these are constants defined in Windo WINDOW CLOSED		WINDOW ACTIVATED	[CO4, K1]
	(a) (b)	WINDOW_CLOSED WINDOW DEICONIFIED	(c)	All of the mentioned	
	(0)	WINDOW DEICONIFIED	(d)	An of the mentioned	
11.	Which	ch of these packages contains all the event	handl	ing interfaces?	[CO4, K1]
11.	(a)	java.awt	(c)	java.awt.event	[CO4, K1]
	(b)	java.event	(d)	java.lang	
	(0)	Java.event	(u)	Juvulung	
12.	Whic	ch of these methods will respond when yo	u click	any button by mouse?	[CO4, K1]
	(a)	mousePressed()	(c)	mouseClicked()	
	(b)	mouseEntered()	(d)	all of the mentioned	\dashv
	. \-/		/		!
13.	Whi	ch of these functions is called to display t	he outi	out of an applet?	[CO4, K1]
	(a)	display()	(c)	displayApplet()	
	(b)	paint()	(d)	PrintApplet()	
14.	Whic	h of these operators can be used to get ru	n time	information about an object?	[CO4, K1]
	(a)	Getinfoof	(c)	Instanceof	

	(b)	Info	(d)	getInfo	
					Trac / ****
15.		th of these methods can be used to output			[CO4, K1]
	(a)	display()	(c)	drawString()	4
	(b)	print()	(d)	transient()	
1.6		1	.1 4		FGO 4 17.13
16.				udioClip interface in the java, applet package	[CO4, K1]
		es the audio clip to replay continually in v			+
	(a) (b)	public void toon()	(c)	public void play() None of the above	\dashv
	(0)	public void loop()	(d)	None of the above	
17.	Whic	th are the common security restrictions in	applet	s?	[CO4, K1]
-,,	(a)	Applets can't load libraries or define	(c)	Applets can play sounds	[• • •,]
	()	native methods	(-)	Pr and P and and	
	(b)	An applet can't read every system	(d)	Both A & B	7
		property			
18.	Whic	h method is called only once during the r	un tim	e of your applet?	[CO4, K1]
	(a)	stop()	(c)	init()	
	(b)	paint()	(d)	destroy()	
					_
19.		is used to run an Applet?			[CO4, K1]
	(a)	An html file	(c)	Both A & B	_
	(b)	An AppletViewer tool	(d)	None of the above	
20	TTI (FGO 4 1713
20.		following specifies the advantages of			[CO4, K1]
		ightweight. poorts pluggable look and feel.			
		lows MVC (Model View Controller) arch	itectur	۵	
	(a)	Swing	(c)	Both A & B	+
	(b)	AWT	(d)	None of the above	┥
	(0)	11111	(u)	Trone of the above	
21.	What	is the name of the Swing class used for f	rames		[CO4, K1]
		Window		JFrame	
	(b)	Frame	(d)	SwingFrame	7
					•
22.	The p	backage that contains swing classes and in	nterface	es	[CO4, K1]
	(a)	java.swing	(c)	javax.awt	
	(b)	Java.awt	(d)	javax.swing	
23.	The r	nethod used to set the text of JLabel object	ct is		[CO4, K1]
	(a)	setTextLabel()	(c)	setText()	_
	(b)	setLabel()	(d)	setLabelText()	
					_
24.		th of the following control is available in			[CO4, K1]
	(a)	Button	(c)	checkbox	4
	(b)	Label	(d)	Radiobutton	
25	T1.	along Crombing OD C. d. 1			[CO4 IZ1]
25.		class Graphics2D comes from the package		Liavay avina	[CO4, K1]
	(a)	java.awt	(c)	javax.swing	\dashv
	(b)	java.swing	(d)	java.awt.image	
			DA :	RT-B	
		2 M		OUESTIONS	
		2 1 11		(020,101,10	

```
What will be the output of the following Java program?
26.
                                                                                                          [CO4, K2]
                package pkg;
                class output
                   public static void main(String args[])
                     StringBuffer s1 = new StringBuffer("Hello");
                     s1.setCharAt(1, x);
                     System.out.println(s1);
             Xello
      (a)
                                                     (c)
                                                            XXXXX
             Hxllo
      (b)
                                                     (d)
                                                            Error
27.
      What is the Message is displayed in the applet made by the following Java program?
                                                                                                           [CO4, K2]
                import java.awt.*;
                import java.applet.*;
                public class myapplet extends Applet
                   public void paint(Graphics g)
                     g.drawString("A Simple Applet", 20, 20);
             A Simple Applet
                                                     (c)
                                                            A Simple Applet 20 20
      (a)
             Runtime Error
                                                            Compilation Error
      (b)
                                                     (d)
28.
             What is the length of the application box made the following Java program?
                                                                                                          [CO4, K2]
                       import java.awt.*;
                       import java.applet.*;
                       public class myapplet extends Applet
                         Graphic g;
                         g.drawString("A Simple Applet", 20, 20);
             20
                                                            Default value
      (a)
                                                     (c)
             Runtime Error
                                                            Compilation Error
      (b)
                                                     (d)
             What is the length of the application box made by the following Java program?
29.
                                                                                                          [CO4, K2]
                       import java.awt.*;
                       import java.applet.*;
                       public class myapplet extends Applet
                         public void paint(Graphics g)
                            g.drawString("A Simple Applet", 20, 20);
             20
                                                            100
       (a)
                                                     (c)
      (b)
             50
                                                     (d)
                                                            System dependent
30
             What will be the output of the following Java program?
                                                                                                          [CO4, K2]
```

```
package pkg;
                      class output
                         public static void main(String args[])
                           StringBuffer s1 = new StringBuffer("Hello World");
                           s1.insert(6, "Good");
                           System.out.println(s1);
      (a)
             HelloGoodWorld
                                                     (c)
                                                           Compilation erro
            Hello Good World
                                                           Runtime error
      (b)
                                                     (d)
31.
                                                                                                          [CO4, K1]
             What is a listener in context to event handling?
      (a)
             A listener is a variable that is notified
                                                           A listener is a method that is notified when
             when an event occurs
                                                           an event occurs
      (b)
            A listener is a object that is notified
                                                     (d)
                                                           None of the mentioned
             when an event occurs
             What will be the output of the following Java program?
32.
                                                                                                         [CO4, K2]
            import java.awt.event.*;
            import javax.swing.*;
            public class ButtonExample {
             public static void main(String[] args) {
               JFrame f=new JFrame("Button Example ");
               final JTextField tf=new JTextField();
               tf.setBounds(50,50, 150,20);
               JButton b=new JButton("Click Here");
               b.setBounds(50,100,95,30);
               b.addActionListener(new ActionListener(){
             public void actionPerformed(ActionEvent e){
                    tf.setText("Welcome.");
                  }
               });
               f.add(b);f.add(tf);
               f.setSize(400,400);
             f.setLayout(null);
              f.setVisible(true);
             } }
             Welcome.
                                                           Click Here
      (a)
                                                     (c)
      (b)
            Button Example
                                                     (d)
                                                           Error
             What is an event in delegation event model used by Java programming language?
33.
                                                                                                          [CO4, K1]
      (a)
             An event is an object that describes
                                                     (c)
                                                           An event is an object that describes a state
             a state change in a source
                                                           change in processing
      (b)
            An event is an object that describes
                                                     (d)
                                                           An event is a class used for defining object,
             any change by the user and system
                                                           to create events
             Which of these constant value will change when the button at the end of scroll bar was
                                                                                                         [CO4, K1]
34.
             clicked to increase its value?
            BLOCK INCREMENT
                                                    (c) UNIT DECREMENT
      (a)
```

	(b)	BLOCK DECREMENT	(d)	UNIT_INCREMENT	
35.		How does applet and servlet communic		[CO4, K1]	
	(a)	HTTP	(c)	FTP	
	(b)	HTTPS	(d)	HTTP Tunneling	

ModuleIV: CONNECTIVITY

Q. No			PART-		[CO#, BTL]
1.	1 MARK QUESTIONS When does Exceptions in Java arises in code sequence?				
	(a)	Run Time	(c)	Can Occur Any Time	[CO4, K1]
	(b)	Compilation Time	(d)	None of the mentioned	
2.		ch of the following classes can catch all ex			[CO4,K1]
	(a)	RuntimeException	(c)	Exception	4
	(b)	Error	(d)	ParentException	
3.	Whic	ch of the following is a super class of all e	xcenti	on type classes?	[CO4, K1]
٥.	(a)	Catchable	(c)	String	
	(b)	RuntimeExceptions	(d)	Throwable	
	1 (-)	,	(/		•
4.	Whic	ch of the following handles the exception	when	a catch is not used?	[CO4, K1]
	(a)	Finally	(c)	default handler	
	(b)	throw handler	(d)	java run time system	
	1 .				1
5.		t is the use of try & catch?		1	[CO4, K1]
	(a)	It allows us to manually handle the	(c)	It prevents automatic terminating of the	
		exception	(1)	program in cases when an exception occurs	_
	(b)	It allows to fix errors	(d)	All of the mentioned	
6.	Whice	ch of these statement is incorrect?			[CO4, K1]
0.	(a)	A thread can be formed by	(c)	start() method is used to begin execution of	
	(")	implementing Runnable interface only		the thread	
	(b)	A thread can be formed by a class that	(d)	run() method is used to begin execution of	
		extends Thread class		a thread before start() method in special	
				cases	
	1 7771 .	1.0 0 1.0 1.1 771 1.	1.		FGO 4 7713
7.		th function of pre defined class Thread is all running?	used to	o check weather current thread being checked	[CO4, K1]
	(a)	isAlive()	(c)	isRunning()	
	(b)	Join()	(d)	Alive()	-
	1 (0)	(JOIN()	(u)	7 Hive()	1
8.	Thre	ad priority in Java is?			[CO4, K1]
	(a)	long	(c)	Double	1 1
	(b)	Integer	(d)	Float	
		-			
9.	Which of these statements is incorrect?				
	(a)	By multithreading CPU idle time is	(c)	Two thread in Java can have the same	
		minimized, and we can take		priority	
		maximum use of it			4
	(b)	By multitasking CPU idle time is	(d)	A thread can exist only in two states,	
		minimized, and we can take		running and blocked	
		maximum use of it			

(a) Thread (b) Process (d) Neither Thread nor Process (d) Neither Thre	10.	What requires less resources?					
11. What should not be done to avoid deadlock? (a) Avoid using multiple threads (c) Execute foreign code while holding a lock (b) Avoid hold several locks at once (d) Use interruptible locks 12. What is true about threading? CO4, K1 (a) Tun() method calls start() method and runs the code (d) Start() method can be called directly without start() method creates new thread and calls code written in run() method can be called directly without start() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method creates new thread and calls code written in run() method call be calls code written in run() method call start() (c) InotifyAll() (d) Sleep() (C04, K1] (d) Sleep() (C04, K1] (d) (d) Sleep() (e) (d)		(a)	Thread	(c)	Thread and Process		
(a) Avoid using multiple threads (b) Avoid hold several locks at once (d) Use interruptible locks What is true about threading?		(b)	Process	(d)	Neither Thread nor Process		
(a) Avoid using multiple threads (b) Avoid hold several locks at once (d) Use interruptible locks What is true about threading?						I	
(b) Avoid hold several locks at once (d) Use interruptible locks	11.		l .	<u> </u>	I —	[CO4, K1]	
12. What is true about threading? (a) run() method calls start() method and runs the code (b) run() method creates new thread (d) start() method being called directly without start() method creates new thread and calls code written in run() method calls starten pool (CO4, K1] Which of the following is advantage of using PreparedStatement in Java? (CO4, K1]			· · · · · · · · · · · · · · · · · · ·				
(a) run() method calls start() method and runs the code (b) run() method creates new thread (d) start() method being called start() method creates new thread and calls code written in run() method 13. Which of these method is used to tell the calling thread to give up a monitor and go to sleep until some other thread enters the same monitor? (a) wait() (b) notify() (d) sleep() 14. Which of the following is advantage of using JDBC connection pool? (a) Slow performance (c) Using less memory (b) Using more memory (d) Better performance 15. Which of the following is advantage of using PreparedStatement in Java? (a) Slow performance (c) Prevents SQL injection (b) Encourages SQL injection (d) More memory usage 16. Which of the following is used to call stored procedure? (a) Statement (b) PreparedStatement (d) CalledStatement (b) PreparedStatement (d) CalledStatement (b) PreparedStatement (d) CalledStatement 17. Which of these method wakes up the first thread that called wait()? (a) start() (c) notifyAll() (d) wake() 18. What are the major components of the JDBC? (a) DriverManager, Driver, Connection, Statement, and ResultSet (b) DriverManager, Statement, and ResultSet (c) DriverManager, Connection, Statement, and ResultSet (d) idbe and javax.rdb (d) sql and javax.sql 20. Which of the following is used generally used for altering the databases? (CO4, K1] (a) boolean execute() (e) int executeUpdate()		(b)	Avoid hold several locks at once	(d)	Use interruptible locks		
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(b) run() method creates new thread (d) start() method creates new thread and calls code written in run() method		(")		(-)			
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14. Which of the following is advantage of using JDBC connection pool? (a) Slow performance (c) Using less memory (d) Better performance (c) Using less memory (d) Better performance (c) Prevents SQL injection (d) Slow performance (e) Prevents SQL injection (d) More memory usage (c) Prevents SQL injection (d) More memory usage (c) Frequency (d) Statement (d) CallableStatment (e) PreparedStatement (d) CalledStatement (e) PreparedStatement (e) CO4, K1 (f) PreparedStatement (d) CalledStatement (e) PreparedStatement (f) Pre		_	· · · · · · · · · · · · · · · · · · ·				
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15. Which of the following is advantage of using PreparedStatement in Java? (CO4, K1]		(a)	Slow performance	(c)	Using less memory		
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(a) DriverManager, Driver, Connection, Statement, and ResultSet (b) DriverManager, Statement, and ResultSet (d) DriverManager, Connection, Statement, and ResultSet [CO4, K1] Select the packages in which JDBC classes are defined? (a) jdbc and javax.jdbc (b) rdb and javax.rdb [CO4, K1] Which of the following is used generally used for altering the databases? (a) boolean execute() (b) int executeUpdate()				-		-	
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19. Select the packages in which JDBC classes are defined? (a) jdbc and javax.jdbc (b) rdb and javax.rdb (c) jdbc and javax.sql (d) sql and javax.sql 20. Which of the following is used generally used for altering the databases? (a) boolean execute() (b) int executeUpdate()		(a)	Connection, Statement, and	(c)			
(a) jdbc and javax.jdbc (b) rdb and javax.rdb (c) jdbc and javax.jdbc.sql (d) sql and javax.sql 20. Which of the following is used generally used for altering the databases? (a) boolean execute() (b) rdb and javax.rdb (c) jdbc and javax.jdbc.sql (d) sql and javax.sql		(b)		(d)			
(a) jdbc and javax.jdbc (b) rdb and javax.rdb (c) jdbc and javax.jdbc.sql (d) sql and javax.sql 20. Which of the following is used generally used for altering the databases? (a) boolean execute() (b) rdb and javax.rdb (c) jdbc and javax.jdbc.sql (d) sql and javax.sql	10	G 1		1 ~	10	FGO 4 7713	
(b) rdb and javax.rdb (d) sql and javax.sql 20. Which of the following is used generally used for altering the databases? (a) boolean execute() (c) int executeUpdate()	19.				i	[CO4, K1]	
20. Which of the following is used generally used for altering the databases? (a) boolean execute() (b) int executeUpdate()		_	· · · · · · · · · · · · · · · · · · ·			_	
(a) boolean execute() (c) int executeUpdate()		(0)	i tuo and javax.rdb	[(a)	sqi and javax.sqi		
int executeOpdate()	20.	Whic	ch of the following is used generally used	for alt	tering the databases?	[CO4, K1]	
(b) ResultSet executeQuery() (d) None of the above.		(a)	boolean execute()	(c)	int executeUpdate()		
	•	(b)	ResultSet executeQuery()	(d)	None of the above.		

21.	Which of these keywords is not a part of exception handling?						
	(a)	Catch	(c)	Thrown			
	(b)	Finally	(d)	Try			
	****				FGG 4 7747		
22.		h of these method of Thread class is used		•	[CO4, K1]		
	(a) (b)	sleep() terminate()	(c) (d)	suspend() stop()			
	(0)	terrimate()	(u)	[Stop()			
23.	Whic	h of these keywords must be used to mon	itor fo	r exceptions?	[CO4, K1]		
	(a)	Try	(c)	Throw			
	(b)	Finally	(d)	Catch			
24.			ing fui	nction to guard against the exception that is	[CO4, K1]		
		n by called function? Catch	(a)	Throws			
	(a) (b)	Throw	(c) (d)	Try	_		
	(0)	THIOW	(u)	11 y			
25.	What	exception thrown by parseInt() method?			[CO4, K1]		
	(a)	ClassNotFoundException	(c)	ArithmeticException			
	(b)	NullPointerException	(d)	NumberFormatException			
		2.74		RT-B			
		2 IVI F	AKK (QUESTIONS			
26	XX 71			0	FGG 4 1721		
26.	What	will be the output of the following Java p	orograi	m?	[CO4, K2]		
	class exception_handling {						
		public static void main(String arg	gs[])				
		{	, 23,				
		try					
		{					
		int a, b; b = 0;					
		a = 5 / b;					
		System.out.print("A");					
		}					
		catch(ArithmeticException e)					
		{ System.out.print("B");					
		System.out.print(B),					
		}					
		}					
	(a)	A	(c)	Compilation Error	_		
	(b)	В	(d)	Runtime Error			
27.	What	will be the output of the following Java of	nda?		[CO4, K2]		
<i>41</i> .	vv 11dl	will be the output of the following Java C	out!		[CO4, K2]		
		alass Output					
	class Output						
		public static void main(String arg	gs[])				
	{						
		try					
		{					

```
int a = 0;
                       int b = 5;
                       int c = a / b;
                       System.out.print("Hello");
                    catch(Exception e)
                       System.out.print("World");
      (a)
             Hello
                                                      (c)
                                                            HelloWOrld
                                                            Compilation Error
      (b)
             World
                                                      (d)
28.
             What will be the output of the following Java code?
                                                                                                           [CO4, K2]
                    public class San
                       public static void main(String[] args)
                          try
                            return;
                          finally
                            System.out.println( "Finally" );
             Finally
                                                      (c)
                                                            The code runs with no output
      (a)
             Compilation fails
                                                      (d)
                                                            An exception is thrown at runtime
29.
             What will be the output of the following Java code?
                                                                                                           [CO4, K2]
                       class newthread implements Runnable
                       Thread t;
                       newthread()
                          t = new Thread(this,"My Thread");
                          t.start();
                       public void run()
                          System.out.println(t.getName());
                       class multithreaded programing
                          public static void main(String args[])
                            new newthread();
```

	(a)	My Thread	(c)	Compilation Error	Т		
	(b)	Thread[My Thread,5,main]	(d)	Runtime Error	1		
20		Two control to the co			TCO 4 1713		
30.		What is multithreaded programming?			[CO4, K1]		
	(a)	It's a process in which two different	(c)	It's a process in which many different			
		processes run simultaneously		process are able to access same information	4		
	(b)	It's a process in which two or more parts of same process run	(d)	It's a process in which a single process can access information from many sources			
		simultaneously		access information from many sources			
			•		-		
31.		What is synchronization in reference to	1		[CO4, K1]		
	(a)	It's a process of handling situations when two or more threads need	(c)	It's a process by which a method is able to access many different threads simultaneously			
		access to a shared resource		access many unicient uneaus simultaneously			
	(b)	It's a process by which many thread	(d)	It's a method that allow too many threads to	1		
		are able to access same shared		access any information the require			
		resource simultaneously					
32.	Ι	What is the correct sequence to create a	datab	ase connection?	[CO4, K2]		
		i. Import JDBC packages.					
		ii. Open a connection to the database.					
	iii. Load and register the JDBC driver.						
		iv. Execute the statement object and retu	ırn a q	uery resultset.			
		v. Create a statement object to perform a query.					
		vi. Close the resultset and statement objects.					
		vii. Process the resultset.					
		viii. Close the connection.					
	(a)	: :: ::: :::::	(c)	ii, i, iii, iv, viii, vii, v, vi			
	()	i, ii, iii, v, iv, vii, viii, v	(-)	, -,,,,			
	(b)	i, iii, ii, v, iv, vii, vi, viii	(d)	i, iii, ii, iv, v, vi, vii, viii			
33.		What is the name of the thread in the following Java Program?					
		alogo multithrooded programi	n ~				
		class multithreaded_programi	ng				
	<pre>public static void main(String args[]) { Thread t = Thread ourrentThread();</pre>						
	Thread t = Thread.currentThread(); System.out.println(t);						
		}					
	(2)	main }	(2)	System	1		
	(a) (b)	main Thread	(c) (d)	System None of the mentioned	-		
		111000		1 Tone of the mentioned			
34.		Which of the following is correct about	Class	.forName() method call?	[CO4, K1]		
		!					

	(a)	This method dynamically loads the driver's class file into memory, which automatically registers it.	(c)	Both of the above.	
	(b)	This method is preferable because it allows you to make the driver registration configurable and portable	(d)	None of the above.	
35.		Which of the following is correct about	7.?	[CO4, K1]	
	(a)	The JDBC API provides the abstraction and the JDBC drivers provide the implementation.	(c)	Both of the above.	

ModuleV: APPLICATION PROGRAMMING

Q.		PART-A 1 MADIZ OLUESTIONS				
No 1.	Wha	1 MARK QUESTIONS What will be the output of the following JavaScript code?				
	<pre>var arr=[1,2,3]; var rev=arr.reverse(); document.writeln(rev);</pre>					
	(a)	1,2,3	(c)	3		
	(b)	3,2,1	(d)	1		
2.		basic difference between JavaScript and		T	[CO5,K1]	
	(a) (b)	There is no difference Functions are considered as fields	(c) (d)	Variables are specific Functions are values, and there is no hard distinction between methods and fields		
3.		unctions in JavaScript necessarily return			[CO5, K1]	
	(a)	It is mandatory	(c)	Few functions return values by default		
	(b)	Not necessary	(d)	some functions do not return any value		
4.	Wha	t will be the possible output of the follow var $a = [1,2,3,4,5];$ a.slice(0,3);	wing Jav	aScript code?	[CO5, K1]	
	(a)	Returns [1,2,3]	(c)	Returns [4,5]		
	(b)	Returns [1,2,3,4]	(d)	Returns [1,2,3,4,5]		
5.	Wha	t will be the output of the following Java var a=225; document.writeln(Math.sqrt(a));	-	rode?	[CO5, K1]	
	(a)	225	(c)	Error		
	(b)	15	(d)	undefined		
6.	The comm	Java specification defines a munication between the Web server and		ation programming interface for ication program	[CO5, K1]	

	(a)	Servlet	(c)	Program	
	(b)	Server	(d)	Randomize	
	<u> </u>	Berver	(u)	Randomize	I .
	The c	doGet() method in the example extracts v	alues c	of the parameter's type and number by using	[CO5, K1]
	(a)	response.getAttribute()	(c)	request.getParameter()	
	(b)	response.getParameter()	(d)	request.setParameter()	
	When	n destroy() method is called in servlet?			[CO5, K1]
	(a)	The destroy() method is called only once at the end of the life cycle of a filter	(c)	The destroyer() method is called after the filter has executed	
	(b)	The destroy() method is called only once at the begining of the life cycle of a filter	(d)	The destroy() method is called after the filter has executed doFilter method	
	1 3371 /				[CO7, IV1]
١.	\vdash	t is the maximum size of cookie?	(2)	1 bytes	[CO5, K1]
	(a) (b)	4 KB 4 MB	(c)	4 bytes 40 KB	+
	T (n)	1 TIND	(d)	40 ND	
0.	Нош	can we invalidate a session?			[CO5, K1]
U.	(a)	session.discontinue()	(c)	session.disconnect()	[CO3, K1]
	(b)	session.invalidate()	(d)	session.falsify()	-
	<u> </u>	session.mvanuate()	(u)	Session.laisity()	ļ
1.	Whic	ch of the following is stored at client side	?		[CO5, K1]
1.	(a)	SSL sessions	(c)	URL rewriting	[CO3, K1]
	(b)	Hidden form fields	(d)	Cookies	
	(0)	11144411 101111 114140	(4)	Coolines	
2.	Whic	ch is not a directive?			[CO5, K1]
	(a)	useBean	(c)	export	
	(b)	page	(d)	include	1
					•
3.	Whic	ch is mandatory in <jsp:usebean></jsp:usebean> tag?			[CO5, K1]
	(a)	id, class	(c)	type, property	
	(b)	id, type	(d)	type,id	
	• ` ′				•
4.	Whic	ch one of the following is correct for direct	ctive in	JSP?	[CO5, K1]
	(a)	<%@directive%>	(c)	<%directive%>	
	(b)	<%!directive%>	(d)	<%=directive%>	
5.	Whic	th tag is used to set a value of a JavaBear	<u>1?</u>		[CO5, K1]
	(a)	<c:set></c:set>	(c)	<c:forward></c:forward>	
	(b)	<c:param></c:param>	(d)	<c:choose></c:choose>	
6.		code is embedded under which tag in JSI		<u></u>	[CO5, K1]
	(a)	Comment	(c)	Scriptlet	4
	(b)	Expression	(d)	Declaration	
7.	Whic	ch of the following is used for session mig	gration	?	[CO5, K1]
	(a)	Persisting the session in database	(c)	Create new database connection	
	(b)	URL rewriting	(d)	Kill session from multiple sessions	
	7777 .	1	1 .		FGC # ****
8.		th type of ServletEngine is a server that in			[CO5, K1]
	(a)	Standalone ServletEngine	(c)	Add-on ServletEngine	1

	(b)	Embedded ServletEngine	(d)	None of the above				
10	XX 71 ·	1 1: ::: 1:10 : 1	1 '		[CO5, K1]			
19.	Which cookie it is valid for single session only and it is removed each time when the user closes the browser							
	(a)	Persistent cookie	(c)	All the above				
	(b)	Non-persistent cookie	(d)	None of the above	1			
				<u> </u>				
20.	Which of the following is a way of embedding Client-side JavaScript code within HTML							
		ments?			[CO5, K1]			
	(a)	By using body tag	(c)	External file specified by the src attribute				
	(1-)	December a bandanta	(L)	of a "script" tag	4			
	(b)	By using a header tag	(d)	From javascript:encoding				
21.	When	1 does JavaScript code appear inline with	in an F	ITML file?	[CO5, K1]			
21.	(a)	Between or Outside the "script" tag	(c)	Outside the "script" tag	[000,111]			
	(b)	Between the header tag	(d)	Between the "script" tag				
	•							
22.		will be done if more than one page requi			[CO5, K1]			
	(a)	Must be re executed	(c)	Retrives from the browser cache	4			
	(b)	Downloads that many times	(d)	Must be included in all the pages				
23.	Whic	h is not a form of client-side storage?			[CO5, K1]			
25.	(a)	Offline Web Applications	(c)	FileSystem API	[005, 101]			
	(b)	Online Web Applications	(d)	Web Databases	1			
		•						
24.		ocalStorage and sessionStorage belongs			[CO5, K1]			
	(a)	Window object	(c)	Hash object	4			
	(b)	DOM object	(d)	Element object	1			
25.	Ном	constructor can be used for a servlet?			[CO5, K1]			
43.	(a)	Setup() method	(c)	Initialization and Constructor function	[CO3, K1]			
	(b)	Constructor function	(d)	Initialization	1			
					•			
			PA	RT-B				
		2 MA	ARK (QUESTIONS				
26.	What	will be the output of the following JavaS	cript c	ode?	[CO1, K2]			
		="demo">						
	<scri< td=""><td>-</td><td></td><td></td><td></td></scri<>	-						
		ment.getElementById("demo").innerHTM	1L = N	lumber(true);				
	<td>ipt></td> <td></td> <td></td> <td></td>	ipt>						
	(a)	1	(c)	True	_			
	(b)	0	(d)	Undefined				
27.	Whi	h of the following is true shout someters			[CO5 V2]			
41.	(a)	h of the following is true about servlets? Servlets execute within the address	(c)	Servlets are platform-independent because	[CO5, K2]			
	(4)	space of web server		they are written in java				
	(b)	Servlets can use the full functionality	(d)	Servlets execute within the address space	1			
		of the Java class libraries	(")	of web server, platform independent and				
				uses the functionality of java class				
				libraries				

i. URL rewriting ii. Using session object iii.Using response object	[CO5, K2]
iv. Using hidden fields v. Using cookies vi. Using servlet object	
(a) i, ii, iii, vi (c) i, ii, iii, v	
(b) i, ii, iv, v (d) i, vi, iii, v	
What is the difference between servlets and applets? i. Servlets execute on Server; Applets execute on browser ii. Servlets have no GUI; Applet has GUI iii. Servlets creates static web pages; Applets creates dynamic web pages iv. Servlets can handle only a single request; Applet can handle multiple requests	[CO5, K2]
(a) i, ii, iii are correct (c) i, ii are correct	
(b) i, ii, iii, iv are correct (d) i, iii are correct	
Which one of the following statements is NOT correct about HTTP cookies?	[CO5, K1]
(a) Cookies can be used to track the browsing pattern of a user at a particular site (c) A cookies is a piece of code that has the potential to compromise the security of Internet users	
(b) A cookie has an expiry date and time (d) cookie gains entry to the user's work area through an HTTP header	a
31. What will be the output of the following JavaScript code?	[CO5, K2]
<pre>const obj1 = {</pre>	
(a) 7,1 (c) Undefined	
(b) 18,1 (d) Error	
What will be the output of the following JavaScript code? <pre> <pre> <pre></pre></pre></pre>	[CO5, K2]
(a) Undefined (c) Error (b) Volvo (d) Garbage value	
(u) Garbage value	<u>_</u>

