L.J Institute of Engineering and Technology, Ahmedabad.
JAVA Practice book (SEM-VI-2024 CE,IT,CSD,AIML,AIDS,CS&IT,CSE,CST,CEA,RAI Engineering)

Note : This Practic book is only for reference purpose. LJU Test question paper may not be completely set from this practice book.

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
		UNIT 3 - Class, Object and Method						
		TOPIC NAME:- General form of class, Declaring object, Scope & Life time of Variable, Static variable, Instance variable, Method declaration and calling						

1	3	What is output of following code?
		class Box{
		   public static void main(String[] args){
		     Box obj = new Box();
		     System.out.print(obj);
		}}
			A	1	Memory address of allocated memory of object	NULL	Any arbitrary pointer	Garbage

2	3	what will be output of following code?
		class student {
		  int rno;
		  String name;
		
		  void set() {
		    rno = 10;
		    name = "John";
		  }
		
		  void show() {
		    System.out.print(rno + " ");
		    System.out.print(name);
		  }
		}
			B	1	10 John	0 null	0 NULL	Run time error

3	3	what will be the output of following code?
		class Circle {
		  double radius;
		  void set(double x) {
		    radius = x; }
		  void show() {
		    System.out.print(radius + " "); }}
		class MainClass {
		  public static void main(String args[]) {
		    Circle c1, c2 = new Circle();
		    c1.set(5.1);
		    c1.show();
		    c2.set(6.1);
		    c2.show(); }}
			C	1	5.1 6.1	0.0 0.0	Compile time error	Run time error

4	3	Given that Student is a class, how many reference variables and objects are created by the following code? Student studentName, studentId; studentName = new Student(); Student stud_class = new Student();	A	1	Three reference variables and two objects are created.	Two reference variables and two objects are created.	One reference variable and two objects are created.	Three reference variables and three objects are created.

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5	3	What will be the output of the following Java program?
		class box {
		  int width;
		  int height;
		  int length;
		}
		class mainclass {
		  public static void main(String args[]) {
		    box obj = new box();
		    System.out.println(obj.height);
		  }
		}
			A	1	0	1	Runtime error	classname@hashcode in hexadecimal form

6	3	Which of the following is a valid declaration of an object of class Demo?	A	1	Demo obj = new Demo();	Demo obj = new Demo;	obj = new Demo();	new Demo obj;
7	3	Which of the following is invalid declaration of an object of class Demo?	B	1	Demo d = new Demo();	Demo d = new Demo;	Demo d; d = new Demo();	Demo Demo = new Demo();

8	3	What will be the output of the program?
		class Test {
		  public static void main(String[] args) {
		    Test p = new Test();
		    p.start(); }
		  void start() {
		    boolean b1 = false;
		    boolean b2 = fix(b1);
		    System.out.print(b1 + " " + b2); }
		  boolean fix(boolean b1) {
		    b1 = true;
		    return b1; }}
			D	1	true true	true false	false false	false true

9	3	What will be the output of the following Java snippet, if compiled and executed with command line "hello there" at runtime?
		class Arg {
		
		  public static void main(String argv[]) {
		    String[] MyArg = argv;
		  }
		
		  void amethod() {
		    System.out.println(argv[1]);
		  }
		}
			A	1	Compile time error	hello	there	hello there

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10	3	What will be the output of the following Java code?
		class test {
		  int a;
		  int b;
		
		  void meth(int i, int j) {
		    i *= 2; j /= 2;
		  }
		}
		class Output {
		  public static void main(String args[]) {
		    test obj = new test(); int a = 10; int b = 20; obj.meth(a, b);
		    System.out.println(a + " " + b);
		  }
		}
			A	1	10 20	20 10	20 40	40 20

11	3	What will be the output of below code?
		class Student {
		  int id; // data member (also instance variable)
		  String name; // data member (also instance variable)
		
		  public static void main(String args[]) {
		    Student s1 = new Student();// creating an object of Student
		    System.out.print(s1.id);
		    System.out.print(s1.name);
		  }
		}
			B	1	00	0null	nullnull	idname

12	3	What is the output of the following Java code snippet?
		class Test {
		  public static void main(String[] args) {
		    Student[] student = new Student[2];
		    student[0].name = "ABC";
		    student[0].marks = 'e';
		    student[0].section = 'A';
		    student[1].name = "DEF";
		    student[1].marks = student[0].marks;
		    student[1].section = student[0].section;
		    Student data = new Student();
		    data.print(student[1].marks); } }
		class Student {
		  String name; int marks; char section;
		  void print(int a){
		    System.out.println(a); } }
			D	1	e	e'	101	Runtime Error

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

13	3	What is the output of the Java code snippet?
		class Test {
		  int a = 20, b, c;
		  void add(int a, int b) {
		    c = a + b;
		    System.out.print(a); }
		  void display() {
		    System.out.print(c);
		    System.out.print(a); }}
		class run {
		  public static void main(String[] args) {
		    Test ob = new Test();
		    ob.b = 10;
		    System.out.print(ob.b);
		    ob.add(1, 2);
		    ob.display(); }}
			B	1	101020	101320	100320	103010

14	3	What will be the output of the following program?
		class variable_scope {
		  public static void main(String args[]) {
		    int x;
		    x = 5;
		    {
		      int y = 6;
		      System.out.print(x + " " + y);
		    }
		    System.out.println(x + " " + y);
		  }}
			A	1	Compile time error	Runtime error	5 6 5 6	5 6 5

15	3	The output of the following program is?
		class Public {
		  int x = 10;
		  StringBuffer sb = new StringBuffer("Hello");
		
		  public static void main(String[] arg) {
		    int x;
		    Public p1 = new Public();
		    System.out.print(x + " ");
		    p1.example();
		  }
		
		  void example() {
		    System.out.print(x + " ");
		    System.out.print(sb + " ");
			D	1	10 10 Hello	0 0 Hello	Run time error	Compile time error

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16	3	What will be the output of the following code?
		``java
		class P {
		    int a = 25;
		    void modify() {
		        int b;
		        b = a + 10;
		    }
		}
		class run {
		    public static void main(String[] args) {
		        P p1 = new P();
		        p1.a = 5;
		        System.out.println(p1.b);
		    }
		}
		``
			D	1	10	20	15	compile time error

17	3	What is the output of the Java program ?
		``java
		class P {
		    int vara=25;
		    void public change() {
		        System.out.println("hi"); }
		}
		class run {
		    public static void main(String[] args) {
		        P t6 = new P();
		        System.out.print(t6.vara);
		        t6.vara = 10;
		        System.out.println(t6.vara); } }
		``
			D	1	2510	2525	1010	Compile Error

18	3	What is the output of the Java program ?
		``java
		class P
		{
		    int a=10,b=5;
		    void sum()
		        {
		        System.out.println("hi");
		        }
		}
		``
			B	1	Compile time error	Run time error	hi	"hi"

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19	3	What is the output of the Java program?
		class equality {
		  int x, y;
		  boolean isequal() {
		    int x = 5, y = 6;
		    return (x == y); }
		  boolean isequal1() {
		    x++;
		    y++;
		    return (x == y); } }
		class Output1 {
		  public static void main(String args[]) {
		    equality obj = new equality();
		    obj.x = 5; obj.y = 5;
		    System.out.print(obj.isequal() + " ");
		    System.out.print(obj.isequal1()); } }
			A	1	false true	true false	false false	true true

20	3	What is the output of the Java program?
		class Example {
		  boolean a;
		  double dd;
		  void setData(boolean a, double d) {
		    a = true;
		    dd = d; }
		  void display() {
		    System.out.print(a + " " + dd); }
		  public static void main(String args[]) {
		    Example o = new Example();
		    o.setData(true, 5.0);
		    o.display(); }}
			B	1	true 5.0	false 5.0	0 5.0	5.0 false

21	3	What is the output of the Java program?
		class Call {
		  String m1(String a) {
		    a = "Welcome";
		    return a;
		  }
		}
		class Main_Add {
		  public static void main(String[] args) {
		    Call a = new Call();
		    System.out.print(a.m1("Hello"));
		  }
		}
			B	1	Hello	Welcome	Hello Welcome	Welcome Hello

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22	3	What will be the output for following code?
		class Test {
		  public static void main(String args[]) {
		    demo d = new demo();
		    d.change(); } }
		
		class demo {
		  StringBuffer sb;
		
		  void change() {
		    sb = new StringBuffer("This is Example");
		    sb.delete(5, 9);
		    System.out.print(sb); } }
			D	1	This Example	This mple	This ample	This xample

23	3	What is the output of the Java code snippet?
		  class Fruit {
		    void display (String a) {
		        System.out.println(a+" is yellow"); }
		    StringBuffer display (StringBuffer b) {
		      return (new StringBuffer(b+" is green")); } }
		  class Myprog {
		    public static void main(String[] args) {
		    Fruit obj = new Fruit();
		    String s = "banana";
		    obj.display(s);
		    StringBuffer sb = new StringBuffer(s);
		    StringBuffer sb1 = new StringBuffer();
		    System.out.println(obj.display(sb));
		    sb1=obj.display(sb);
		    System.out.println(sb);
		    obj.display(s); } }
			A	1	banana is yellow
					banana is green
					banana
					banana is yellow
						banana is yellow
						banana is green
						banana is yellow
						banana is yellow
							banana is yellow
							banana is green
							banana is green
							banana is yellow
								banana is green
								banana is yellow
								banana
								banana is yellow

24	3	What is the output of the Java program ?
		import java.util.*;
		class Main {
		  public static void main(String[] arg) {
		    char a[] = { 97, 'a', 98, 'b', 99, 'c' };
		    Sorting s1 = new Sorting();
		    s1.tosort(a);
		    for (int i = a.length; i > 0; i--) {
		      {
		      System.out.print(a[i - 1]); } } } }
		class Sorting {
		  void tosort(char[] b) {
		    Arrays.sort(b); } }
			D	1	979798989999	999998989797	99c98b97a	ccbbaa

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25	3	What is the output of the Java code snippet?
		class Output
		{
		  char sum(int x) {
		    System.out.print(x);
		    return 'a';
		  }
		  public static void main(String args[]) {
		    Output t = new Output();
		    System.out.print(t.sum(97));
		  }
		}
			C	1	a	97	97a	a97

26	3	What is the output of the Java code snippet?
		class Output {
		  char sum(int a) {
		    System.out.print(a);
		    return 'b';
		  }
		
		  public static void main(String args[]) {
		    Output t = new Output();
		    System.out.print(t.sum(97));
		  }
		}
			C	1	b	98	97b	a98

27	3	What is the output of the Java code snippet?
		class Test
		{
		 void show() {
		  System.out.print("\"SHOW Method\"");
		  return;
		 }
		 public static void main(String[] args) {
		  Test t2 = new Test();
		  t2.show();
		 }
		}
			B	1	SHOW Method	SHOW method	"SHOW Method"	Compiler error

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28	3	What is the output of the following Java code snippet?
		class Argument {
		  public void tryPrimitives(int i, double f, char c, boolean test) {
		    i += 10;
		    c = 'z';
		    if (test)
		      test = false;
		    else
		      test = true; }
		  public static void main(String args[]) {
		  Argument A = new Argument();
		  int ii = 1;
		  double ff = 1.0;
		  char cc = 'a';
		  boolean bb = false;
		  A.tryPrimitives(ii, ff, cc, bb);
		  System.out.println("ii = " + ii + ", ff = " + ff + ", cc = " + cc + ", bb = " + bb); }}
			A	1	ii = 1, ff = 1.0, cc = a, bb = false	ii = 1, ff = 1.0, cc = 97, bb = true	ii = 1.0, ff = 1.0, cc = a, bb = false	Error

29	3	Create a class name Temperature in which create methods of given name ferenhit(), celcius() to perform basic conversion. Call all this methods using class named Main.		3				
30	3	Write a Java program to print "Hello LJU" message using class LJ.		3				
31	3	Write a Java program to find area and perimeter of a circle having radious=5 units using class Circle.		5				
32	3	Write a Java program to count digits of an integer number given by user using class.		5				
33	3	Write a Java program to find product of all digits of an integer number given by user using class		5				
34	3	Write a Java program to check whether a given number given by user is palindrome or not using class		5				
35	3	Write a Java program to check whether a number given by user is Armstrong or not using class		5				
36	3	Write a Java program to find nPr by using class. (take n=10, r= 3)		4				
37	3	Write a java program to access two variables and two methods with different name using class.		3				
38	3	Write a Java program to perform basic Calculator operations using following methods catagories: sum() - without arguments without return, minus() - with arguments without return, multi() - without arguments with return divide() - with arguments with return		5				

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39	3	Design a class named Fan to represent a fan. The class contains: - Three constants named SLOW, MEDIUM and FAST with values 1, 2 and 3 to denote the fan speed. - An int data field named speed that specifies the speed of the fan (default SLOW). - A boolean data field named f_on that specifies whether the fan is on (default false). - A double data field named radius that specifies the radius of the fan (default 4). - A data field named color that specifies the color of the fan (default blue). - A no-arg method that creates a default fan. - A parameterized method initializes the fan objects to given values. - A method named display() will display description for the fan. If the fan is on, the display() method displays speed, color and radius. If the fan is not on, the method returns fan color and radius along with the message "fan is off". Write a test program that creates two Fan objects. One with default values and the other with medium speed, radius 6, color brown, and turned on status true. Display the descriptions for two created Fan objects.		7				
40	3	Define the Rectangle class that contains: Two double fields x and y that specify the center of the rectangle, the data field width and height, A no-arg method that creates the default rectangle with (0,0) for (x,y) and 1 for both width and height. A parameterized method creates a rectangle with the specified x,y,height and width. -A method getArea() that returns the area of the rectangle. -A method getPerimeter() that returns the perimeter of the rectangle. -A method contains(double x, double y) that returns true if the specified point (x,y) is inside this rectangle. Write a test program that creates two rectangle objects. One with default values and other with user specified values. Test all the methods of the class for both the objects.		7				
		TOPIC NAME:- METHOD OVERLOADING						

41	3	What is the output of the below Java program with multiple methods?
		 class MethodOverloading1
		{
		 void show(int a, char b)
		{
		 System.out.println("KING KONG");}
		 void show(char a, int b) {
		 System.out.println("JIM JAM");
		}
		 public static void main(String[] args)
		{
		 MethodOverloading1 m = new MethodOverloading1();
		 m.show(10, 'A');
		 m.show('B', 10);
		}}
			C	1	JIM JAM JIM JAM	KING KONG KING KONG	KING KONG JIM JAM	compiletime error

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42	3	What is the output of the Java code snippet?
		class Test {
		  void show(int a, char b) {
		    System.out.println("int char");
		  }
		  void show(char a, int b) {
		    System.out.println("char int"); }
		  void show(int a, int b) {
		    System.out.println(a + " " + b);
		  }
		  public static void main(String[] args) {
		    Test m = new Test();
		    m.show('a', 'b');
		  }}
			B	1	97 98	Error	97 b	int char

43	3	What is the output of the following given code?
		class TestMCQ1 {
		  public static void main(String args[]) {
		    System.out.println("Hi Main String");
		    TestMCQ1 t1 = new TestMCQ1();
		    t1.main(10);
		  }
		
		  public void main(int args) {
		    System.out.println("Hi Main int ");
		  }
		  public void main(float args) {
		    System.out.println("Hi Main float");
		  }}
			C	1	Hi Main String
					Hi Main float
						compile time error	Hi Main String
							Hi Main int
								run time error

44	3	What is the output of the following given code?
		class TestMCQ2 {
		  void display(int a, char b) {
		    System.out.println("BYE BYE");
		  }
		
		  void display(char a, int b) {
		    System.out.println("Hi Hi");
		  }
		
		  public static void main(String[] args) {
		    char A = 65;
		    TestMCQ2 m = new TestMCQ2();
		    m.display(10, 'A');
		    m.display(A, 10);
		  }
		}
			A	1	BYE BYE
					Hi Hi
						BYE BYE
						BYE BYE
							Hi Hi
							Hi Hi
								compile time error

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45	3	What is the output of the following given code?
		class Test{
		    void display(int a, String b){
		        System.out.print("1"); }
		    void display(char a, StringBuffer b){
		        System.out.print("2"); }
		    void display(float a, float b){
		        System.out.print("3"); }
		    public static void main(String[] args){
		      char A = 'a';
		      Test ob = new Test();
		      ob.display(1,"Bye");
		      ob.display('A',"Apple");
		      ob.display(10,10.0f); } }
			D	1	123	331	321	113

46	3	What is the output of the Java program?
		class overload{
		int x;
		int y;
		void add(int a){
		x = y + 1 + a;}
		void add(int a, int b){
		x = x + 2 + b;}}
		class Overload_methods{
		public static void main(String args[]){
		overload obj = new overload();
		int a = 0;
		obj.add(5);
		obj.add(4,8);
		System.out.println(obj.x); }}
			B	1	5	16	8	6

47	3	What is the output of the Java program?
		class TestNum{
		int a,b;
		void print(int a, float b){
		a = a + (int)b;}
		void print(TestNum t){
		a = t.a * t.b;}}
		class TestNumMain{
		public static void main(String args[]){
		TestNum t1 = new TestNum();
		TestNum t2 = new TestNum();
		t1.print(10,20);
		t1.print(t2);
		System.out.println(t2.a);}}
			A	1	0	20	200	30

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48	3	What is the output of the Java program?
		class TestString{
		void show(String a){
		a = a + "Hi";
		System.out.println(a);
		}
		void show(Object a){
		a = a + "Bye";
		System.out.println(a);
		}}
		class TestStringMain{
		public static void main(String args[]){
		TestString t1 = new TestString();
		t1.show(null);
		}}
			D	1	null	Hi	Bye	nullHi

49	3	What is the output of the Java program?
		class Overload
		{
		void display (int a, double d)
		{
		System.out.print(a+d); }
		double display (int aa, double dd){
		return(aa+dd); }
		public static void main(String args[])
		{
		Overload o = new Overload();
		o.display(4,5.0);
		System.out.print(o.display(4,5.5));
		}
		}
			A	1	Compile time error	9 9	9.5 9.5	9 9.5

50	3	Write a program which asks user to choose one option to find area using method overloading. 1. To calculate area of circle 2. To calculate area of rectangle 3. To calculate area of triangle Methods to find area of circle,area of rectangle & area of triangle should be named as "area".		5				
51	3	Create a program that implements a calculator with overloaded methods for addition, subtraction, multiplication, and division. The calculator should have methods like calculate(int a, int b), calculate(double a, double b), and so on to perform the respective operations based on the data types of the input parameters.		5				

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52	3	Create a class comparison which has compare() method which compare two integer value, character value and double value using method overloading		5				

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		TOPIC NAME:- PASSING ARRAYS TO METHOD, ARRAY OF OBJECTS						

53	3	What is the output of the below Java program?
		class GFG {
		void function1(int[] array) {
		System.out.println("The first element is: " + array[0]);
		}
		public static void main(String[] args) {
		// creating instance of class
		GFG obj = new GFG();
		// creating a 1D and a 2D array
		int[] oneDimensionalArray = { 1, 2, 3, 4, 5 };
		// passing the 1D array to function 1
		obj.function1(oneDimensionalArray);
		}}
			A	1	The first element is: 1	The first element is: 2	The first element is: 3	The first element is: 5

54	3	What is the output of the below Java program?
		class Main{
		public static void addTen(int[] arr)
		{
		for(int i = 0; i < arr.length; i++) {
		arr[i] += 10;}
		}
		public static void main(String[] args)
		{
		int[] arr = {1, 3, 5, 7, 9};
		addTen(arr);//Simply pass the name of the array to the method
		for(int i = 0; i < arr.length; i++)
		{
		System.out.print(arr[i] + " ");
		}}}
			C	1	1 3 5 7 9	10 30 50 70 90	11 13 15 17 19	10 3 5 7 9

55	3	What is the output of the following code?
		class Main1{ int count=0,i;
		int countNeg(int []a){
		for(i=0;i<a.length;i++){
		if(a[i]<0) count++;}
		return i;
		}
		public static void main(String args[]){
		int x[]={-1,3,5,7,-9};
		Main1 c1=new Main1();
		System.out.println(c1.countNeg(x));
		}
		}
			C	1	2	3	5	0

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

56	3	What is the output of the following code?
		class Main{
		    void methodArr(double []arr,double x,double y){
		        for(int i=0;i<arr.length;i++){
		        if(arr[i]==x) {arr[i]=y;}}
		    }
		    public static void main(String a[]){
		        double arr[]={2,12,22,2,20,200};
		        Main m1=new Main();
		        m1.methodArr(arr,2,0);
		        for(int i=0;i<arr.length;i++){
		        System.out.print(arr[i]+" ");}}
		}
		}
			B	1	0 12 22 0 20 200	0.0 12.0 22.0 0.0 20.0 200.0	2.0 12.0 22.0 0.0 20.0 200.0	Compile error

57	3	What is the output of the Java code snippet?
		class New{
		public static void main(String args[ ]) {
		 New n = new New();
		int arr[] = {10, 30, 30, 60};
		System.out.println(n.guess(arr));
		}
		double guess(int[] arr) {
		double output = 0;
		for (int i = 0; i < arr.length; i++)
		output = output + arr[i];
		return output / arr.length;
		    }
		}
			C	1	30	32	32.5	17.5

58	3	What will be the output of the following code?
		class Test{
		  void multAll(int []a, int amt){
		    int i = 0;
		    while (i < a.length){
		      a[i] = a[i] * amt;
		      i++;}}
		  public static void main(String [] args){
		    int[ ] a = {1, 3, -5, -2};
		    Test t1 = new Test();
		    t1.multAll(a,3);
		    System.out.println(t1.a[2]);}}
			D	1	-15	9	-6	Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

59	3	What is the output of the Java program?
		class Arrays
		{
		void arr(int a[])
		{
		for(int i=0;i<3;i++)
		{
		a[i]=a[i+1]*3;
		System.out.print(a[i]+" ");
		}}
		public static void main(String args[])
		{
		Arrays r = new Arrays();
		int a[] = {1,2,3,4};
		r.arr(a); }}
			C	1	1 2 3	2 3 4	6 9 12	6 6 6

60	3
	
	3
		what will be output of following code
		class student {
		  int rno;
		  char ch;
		
		  void set() {
		    rno = 5;
		    ch = 'A';}
		
		  void show() {
		    System.out.print(rno + " ");
		    System.out.print((int) ch);
		  }
		}
		class MainClass {
		  public static void main(String args[]) {
		    student s[] = new student[5];
		    s[0].set();
		    s[0].show();
		  }
		}
			D	1	5 A	0 null	0 0	Run Time Error

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

62	3	What is the output of the following code?
		class Main1
		{
		int count=0,i;
		int countNeg(int []a){
		for(i=0;i<a.length;i++)
		{
		if(a[i]<0)
		count++;}
		return i; }
		public static void main(String args[])
		{ int x[]={-1,3,5,7,-9};
		Main1 c1=new Main1();
		System.out.println(c1.countNeg(x));
		}}
			D	1	2	7	-9	5

62	3	What is the output of the following code?
		class Main{
		public void addTen(int[] arr){
		for(int i = 0; i < arr.length; i++){
		arr[i] += 10;}}
		public static void main(String[] args)
		{
		int[] arr = {1, 3, 5, 7, 9};
		Main obj = new Main();
		obj.addTen(arr);
		for(int i = 0; i < arr.length; i++) {
		System.out.print(arr[i] + " ");
		}
		}}
			A	0.5	11 13 15 17 19	1 3 5 7 9	9 7 5 3 1	19 17 15 13 11

63	3	Write a Java program to create an array of objects		5				
64	3	Create a class Student with Roll_No ,Name and Mobile_No as data member. Use necessary method to initialize it and to print. Create at least 5 student. (Use array of object).		3				
65	3	Write a Java Program to Create a class Account. It has three data member account id, name and balance. Define method to assign value and display value. Define method that search account number given by the user. If account number exists, print detail of that account. Write a program using array of object. Declare at least 5 account and print details.		7				
66	3	Write a Java program to sort the numbers by using the concept of passing arrays to methods		5				
67	3	Write a Java program to display elements of one dimensional array using passing arrays to methods		5				

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
68	3	Write a Java program to find Even number and Odd number from given Array using the concept of passing arrays to methods		5				
69	3	Write a java program to find min and max values from a given array using passing arrays to methods.		5				
70	3	Write a java program to reverse elements of array using logic of swapping elements. Here, use concept of passing array as argument to method. method. Use Scanner class to enter Array elements.		5				
		TOPIC NAME:- CALL BY VALUE AND CALL BY REFERENCE						

71	3	What is the output of the Java code snippet?
		class CallbyValue
		{
		  int x = 20;
		  void modify(int x)
		  {
		   x = x + 200;
		   System.out.println("Value of x after modification: " +x);
		  }
		 public static void main(String[] args)
		{
		 CallbyValue t = new CallbyValue();
		 t.modify(t.x);
		 System.out.println("Original value of x: " +t.x); } }
			D	1	Value of x after modification: 220 Original value of x: 0	Value of x after modification: 200 Original value of x: 20	Value of x after modification: 0 Original value of x: 20	Value of x after modification: 220 Original value of x: 20

72	3	What is the output of the Java code snippet?
		class Animal{
		 int a;
		 void display(Animal a1) {
		  a=20;
		  a=a1.a;}
		 void setA(int a1){
		  a=a1;}}
		class Test3 {
		  public static void main(String args[]) {
		  Animal a1 = new Animal();
		  Animal a2 = new Animal();
		  a1.setA(300);
		  a2.display(a1);
		  System.out.println(a2.a);}}
			A	1	300	20	Compile time error	Run time error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

73	3	What is the output of the Java code snippet?
		class Bird {
		  int a;
		  void display(Bird a1) {
		    a = 20; }
		  void setA(int a1) {
		    a = a1; }}
		class TestMCQ4 {
		  public static void main(String args[]) {
		    Bird a1 = new Bird();
		    Bird a2 = new Bird();
		    a1.setA(300);
		    a2.display(a1);
		    System.out.println(a2.a); }}
			B	1	300	20	Compile time error	Run time error

74	3	What is the output of the Java code snippet?
		class GoodLuck {
		int posts=10;
		}
		class Java {
		 public static void main(String[] args)
		{
		  GoodLuck wp1 = new GoodLuck();
		  wp1.posts = 20;
		  GoodLuck wp2 = wp1;
		  wp1.posts = 30;
		  System.out.print(wp1.posts);
		  System.out.print((wp2.posts));
		 }
		}
			D	1	1010	2030	3010	3030

75	3	Write a Java program to find sum of n numbers by using the concept of call by value		3				
76	3	Write a Java program to add 5 in original value of array elements and display modified elements of one dimensional array using pass by value mechanism.		3				
77	3	Write a Java program to change original value,which is given from user by using appropriate Parameter passing technique.		3				
78	3	Write a Java program to Swap two values,which is given from user by using call by value.		3				
79	3	Write a Java program to Swap two values,which is given from user by using call by reference.		3				
80	3	Write a program using call by reference concept to read an array of integers and print its elements in reverse order		3				
81	3	Write a Java program to copy one array into another array using call by referrence		3				

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
		TOPIC NAME:- Returning object, Object as Parameter						
82	3	What is the output for the following code? ```\nclass Add{\n int a;\n int b;\n void sum(Add A1){\n int sum1=A1.a+A1.b;\n System.out.println("Sum of a and b :"+sum1);}}\nclass classExAdd{\n public static void main(String arg[]){\n Add A=new Add();\n A.a=10;\n A.b=20;\n A.sum(A);\n }\n}\n```	C	1	error	Sum of a and b :0	Sum of a and b :30	none of these
83	3	What is the output for the following code? ```\nclass Add {\n int a;\n int b;\n Add sum(Add A1) {\n int sum1 = A1.a + A1.b;\n return A1;\n }}\nclass classExAdd {\n public static void main(String arg[]) {\n Add A = new Add();\n A.a = 10;\n A.b = 20;\n System.out.println(A.sum(A)); }\n}\n```	B	1	30	classname@hashcode	10	error

L.J Institute of Engineering and Technology, Ahmedabad.
JAVA Practice book (SEM-VI-2024 CE,IT,CSD,AIML,AIDS,CS&IT,CSE,CST,CEA,RAI Engineering)
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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

84	3	What is the output of the Java code snippet?
		class Time{
		    int hour, min;
		    public static void main(String[] args) {
		        Time t3= new Time();
		        Time t2= new Time();
		        t3.input(1,20);
		        t3.sum(t3,t2); }
		    void input(int h,int m){
		      hour=h;
		      min=m;}
		    void sum(Time t2,Time t3){
		      min= t3.min+t2.min;
		      hour = t3.hour+t2.hour;
		      System.out.print(t3.hour+" "+t2.min+" "+hour+" "+min);}}
			C	1	0 20 0 20	1 0 1 20	0 20 1 20	0 0 0 0

85	3	What is the output for the following code?
		class Salmon {
		int count;
		void salmon1(salmon1 s) {
		s.count = 4;
		return s;}
		public static void main(String[] args) {
		Salmon s1= new Salmon;
		Salmon s2= new Salmon;
		s2=s1.salmon1(s1);
		System.out.println(s2.count);
		} }
			C	1	4	1	Error	classname@hashcode

86	3	what is the output for the above code?
		class B {
		    int i,j;
		    void display(B obj1) {
		       System.out.println(obj1.i+" "+obj1.j);
		    }
		    public static void main(String args[]) {
		       B obj = new B();
		       obj.i=1;
		       obj.j=2;
		       obj.display(obj);
		    }
		}
			A	0.5	1 2	12	1	2

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

87	3	What is the output of the below Java program?
		class Operation2{
		 int data=50;
		 void change(Operation2 op){
		 op.data=op.data+100;
		}
		 public static void main(String args[]){
		 Operation2 op=new Operation2();
		 System.out.println("before change "+op.data);
		 op.change(op);//passing object
		 System.out.println("after change "+op.data);
		} }
			A	1	before change 50
					after change 150
						before change 50
						after change 100
							before change 100
							after change 150
								before change 150
								after change 50

88	3
	
	3
		What is the output of the Java program?
		class Test {
		  int a;
		  int b;
		
		  void set(int i, int j) {
		    a = i;
		    b = j;
		  }
		
		  void meth(Test o) {
		    o.a *= 2;
		    o.b /= 2;
		  }
		}
		
		class Output {
		  public static void main(String args[]) {
		    Test obj = new Test();
		    obj.set(4, 9);
		    obj.meth(obj);
		    System.out.println(obj.a + " " + obj.b);
		  }
		}
			B	1	4 8	8 4	4 9	9 4

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

89	3
	
	 3
		What is the output of the following Java code snippet?
		class Test{
		  int var1, var2;
		  public static void main(String[] args) {
		    Test T1 = new Test();
		    Test T2 = new Test();
		    T1.var1 = 12; T1.var2 = 120;
		    T2.var2 = 60; T2.var1 = 100;
		    Test T3 = new Test();
		    T3.run(T1,T2);
		    System.out.print(T3.var2);}
		  Test run(Test p1, Test p2){
		    var1 = p1.var2 / p2.var1;
		    var2 = p2.var2 / p1.var1;
		    Test obj = new Test();
		    obj.var1 += var2;
		    System.out.print(obj.var1);
		    obj.var2 += var1;
		    System.out.print(obj.var2);
		    return obj;
		}}
			D	1	5	1	555	515

90	3	1. Program Objective:
		  The program's primary goal is to calculate the sum of two distances (in kilometers and meters) and display the result in a user-readable format.
		2. Classes and Methods:
		  - `Distance` class:
		   - `int km, m`: Instance variables to store kilometers and meters.
		   - `Scanner sc`: Used to take input from the user.
		   - `void get()`: Method to input distance values from the user.
		   - `void show(int a, int b)`: Method to display the distance in kilometers and meters.
		   - `Distance add(Distance obj1, Distance obj2)`: Method to add two distances and return the result as a new `Distance` object.
		  - `run` class:
		   - `main(String args[])`: The main method where the program execution begins.
				7				

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
	3	begins. - Creates instances of the `Distance` class, takes input for two distances, calculates their sum, and displays the result. 3. Input and Output: - The program prompts the user to input two distances: one in kilometers and another in meters (or 0 if no meters are present). - After input, it calculates the sum and displays it in kilometers and meters. 4. Distance Calculation: - The `add` method of the `Distance` class takes two `Distance` objects, adds their kilometer and meter values, and handles the carryover from meters to kilometers when necessary. 5. Output Format: - The program displays the sum of distances in the format "Distance = X.Y KM," where X is kilometers, and Y is meters.						
91	3 / 3	The provided Java code represents a program that deals with time calculations using a `Time` class. Here's a problem definition for this code: 1. Program Objective: The program's primary goal is to manipulate and display time values in terms of hours and minutes. 2. Classes and Methods: - `Time` class: - `int hr, min`: Instance variables to store hours and minutes. - `void Set(int x, int y)`: Method to set the time using provided hour and minute values. - `void Set(Time obj1, Time obj2)`: Method to set the time by adding the hours and minutes from two `Time` objects. - `void show()`: Method to display the time in hours and minutes and handle the conversion of excess minutes to hours if necessary. - `TestA` class: - `main(String args[])`: The main method where program execution begins. - Creates instances of the `Time` class, sets time values, adds them, and displays the result. 3. Time Manipulation: - The `Time` class allows setting time using either direct hour and minute values or by adding the hours and minutes from two `Time` objects. 4. Output Format: - The program displays the time in hours and minutes in the format "hr=X" and "min=Y," where X and Y represent the hour and minute values, respectively.		7				

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
92	3	Declare a class called coordinate to represent 3 dimensional Cartesian coordinates(x, y, and z) define following method. - Initialize Method - Display method to print values of members - Add_coordinates method, to add three such coordinates object to produce a resultant coordinates object. - Main , to show use of above method		7				
93	3	Write a Java program to find the power of number using passing an object to the method(i.e num=5 and power=3 then ans is5^3 that is 125)		5				
94	3	Write a Java program to find GCD of two numbers using passing an object to the method(i.e a=4 and b=6 then GCD is 2)		5				
UNIT - 4 - Constructor & Keywords								
TOPIC NAME:-Types of constructor: Usage, Types of constructor: Default, Parameterized and Copy Constructor, Constructor Overloading								

95	4	What is the output of the below Java program?
		 public class TestingConstructor
		 {
		 void TestingConstructor()
		 {
		 System.out.println("Amsterdam");
		 }
		 TestingConstructor()
		 {
		 System.out.println("Antarctica");
		 }
		
		 public static void main(String[] args)
		 {
		 TestingConstructor tc = new TestingConstructor();}}
			A	1	Antarctica	Amsterdam	No output	Compilation error

96	4	What is the output of following program?
		 class Test{
		 int x;
		 Test(int a)
		 {
		 System.out.println(++a);
		 }
		 void display()
		 {
		 System.out.println(x);
		 }
		 public static void main(String[] args) {
		 Test t1= new Test(10);
		 Test t2 = new Test();
		 t2.display();
		 }}
			D	1	11
					0
						10
						0
							Runtime error	Compilation error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
97	4	Identify the prototype of the default constructor. public class solution {}	D	1	solution(void)	solution()	public solution(void)	public solution()

98	4	What should be the execution order, if a class has a method, static block, instance block, and constructor, as shown below?
		public class First_C {
		public void myMethod() {
		System.out.println("Method"); }
		{
		System.out.println(" Instance Block");
		}
		public void First_C() {
		System.out.println("Constructor "); }
		static {
		System.out.println("static block"); }
		public static void main(String[] args) {
		First_C c = new First_C();
		c.First_C();
		c.myMethod(); } }
			D	1	Instance block, method, static block, and constructor	Method, constructor, instance block, and static block	Static block, method, instance block, and constructor	Static block, instance block, constructor, and method

99	4	What will be the output of the following program?
		class Student6{
		int id;
		String name;
		Student6(int i,String n){
		id = i;
		name = n; }
		//constructor to initialize another object
		Student6(Student6 s){
		id = s.id;
		name =s.name; }
		void display(){System.out.println(id+" "+name);}
		public static void main(String args[]){
		Student6 s1 = new Student6(111,"Karan");
		Student6 s2 = new Student6(s1);
		s1.display();
		s2.display(); } }
			B	1	111
					111 Karan
						111 Karan
						111 Karan
							111 Karan
							111
								111 Karan
								Karan

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

100	4	What is the output of the following Java program?
		public class Test
		{
		Test(int a, int b)
		{
		System.out.println("a = "+a+" b = "+b);
		}
		Test(int a, float b)
		{
		System.out.println("a = "+a+" b = "+b);
		}
		public static void main (String args[])
		{
		int a = 10;
		int b = 15;
		Test test = new Test(a,b);
		} }
			A	1	a = 10 b = 15	a = 11 b = 15	a = 10 b = 10	a = 10 b = 15.00000

101	4	What is the output of the following Java program?
		class Test
		{
		int i;
		}
		public class Main
		{
		public static void main (String args[])
		{
		Test test = new Test();
		System.out.println(test.i);
		}
		}
			A	1	0	1	2	3

102	4	What is the output of the following Java program?
		class Test
		{
		int test_a, test_b;
		Test(int a, int b)
		{
		test_a = a;
		test_b = b;
		}
		public static void main (String args[])
		{
		Test test = new Test();
		System.out.println(test.test_a+" "+test.test_b);
		}
		}
			C	1	a	b	compiler error	none of these

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

103	4	What is the output of the following Java program?
		class FinalTest {
		FinalTest(int a, int b){
		System.out.print(a+b); }
		FinalTest(int a, float b) {
		System.out.print(b+a); }
		public static void main (String args[]) {
		char a = 'A';
		char b = 'a';
		FinalTest ft = new FinalTest(a,b); }
		}
			C	1	Aa	164	162	Compile Error

104	4	What will be the output?
		class Main{
		double a=5.5;
		Main(double a) {
		System.out.println(this.a);
		}
		public Main(){
		a=10.5;
		System.out.println(this.a+" ");
		}
		public static void main(String[] args){
		Main m1=new Main();
		Main m2=new Main(15.5);
		}
		}
			C	1	10.5
					5
						10
						5.5
							10.5
							5.5
								Compilation Eroor

105	4	What will be the output of following Java code?
		class Abc {
		  int count = 10;
		  Abc(int count) {
		    System.out.println("Count=" + count + " ");
		  }
		  Abc() {
		    System.out.println("Count=" + count + " ");
		  }
		  public static void main(String[] args) {
		    Abc obj1 = new Abc();
		    Abc obj2 = new Abc(15);
		  }
		}
			C	1	Count=10
					Count=10
						Count=15
						Count=15
							Count=10
							Count=15
								Count=15
								Count=10

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

106	4	What is the output of the Java code snippet?
		class FinalTest {
		FinalTest(int a, int b){
		System.out.print(a+""+b); }
		FinalTest(int a, float b) {
		System.out.print(b+""+a); }
		public static void main (String args[]) {
		char a = 'A';
		char b = 97;
		FinalTest ft = new FinalTest(a,b); }
		}
			C	1	A97	Aa	6597	65a

107	4	What is the output of the Java code snippet?
		class Test {
		int test_a, test_b;
		Test(int a, int b) {
		test_a = a;
		test_b = b;
		}
		public static void main (String args[]) {
		Test test = new Test(10,20);
		System.out.println(""+ test.test_a+test.test_b);
		}
		}
			C	1	30	10	1020	Error

108	4	What will be the output of the following program?
		class Student6{
		int id; String name;
		Student6(int i,String n){
		id = i; name = n; }
		Student6(Student6 s){
		id = s.id; name =s.name; }
		void display(){
		System.out.print(id+name); }
		public static void main(String args[]) {
		Student6 s1 = new Student6(0,"LJ");
		Student6 s2 = new Student6(s1);
		s1.display();
		s2.display(); }}
			A	1	0LJ0LJ	0LJs1	No Output	Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

109	4	class A{
		  void A( ) {
		System.out.print("8"); }
		  void A (int string) {
		A(this);
		System.out.print("9"); }
		  void A(A Int) {
		System.out.print("5");
		  }}
		class run {
		public static void main(String[] args) {
		  A ob = new A( );
		ob.A(5);
		} }
			D	1	89	98	58	59

110	4	What will be the output of the following Java program?
		class Demo( ){
		double w,h,d;
		Demo( ){
		System.out.print("Constructing Demo");
		w=10; h=10; d=10;
		}}
		class main( ){
		public static void main(String args[]){
		Demo d=new Demo();} }
			B	1	Constructing Demo	Compile Error	"Constructing Demo"	No output

111	4	What is the output of the Java code snippet?
		class Test
		{
		int i;
		}
		class Main
		{
		public static void main (String args[])
		{
		Test test = new Test();
		System.out.println(test.i);
		}
		}
			B	1	1	0	2	Compile Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

112	4	What is the output of the following Java code snippet?
		
		class Test {
		  Test(int a, int b) {
		    System.out.println("a = " + a + " b = " + b);
		  }
		  Test(int a, float b) {
		    System.out.println("a = " + a + " b = " + b);
		  }
		  public static void main(String args[]) {
		    int a = 10;
		    int b = 15;
		    Test test = new Test(a, b);
		  }
		}
			A	1	a = 10 b = 15	a = 10 b = 0	a = 15 b = 10	Compile time error

113	4	What is the output of the following Java code snippet?
		class Test{
		  public static void main(String[] args) {
		    B b = new B(5); } }
		class A{
		  int x = 2;
		  int A(){
		    System.out.print(x++ + " ");
		    return 0;
		  }
		  A(int j){ System.out.print(j - x++ + " "); }}
		class B{
		  A a = new A(3);
		  B(){ System.out.print(a.x++ + " "); }
		  B(int i){ System.out.print(i + a.x-- + " "); }
		}
			A	1	1 8	8	9	Compile Error

114	4	What will be the Output of following code?
		class Test {
		Test(Object object) {
		System.out.println("Object"); }
		Test(Test test) {
		System.out.println("Test");
		}
		Test(String string) {
		System.out.print("String");
		}
		Test(StringBuffer stringBuffer) {
		System.out.println("StringBuffer");} }
		class Main {
		public static void main(String[] args) {
		Test t1 = new Test(new String("hello"));
		Test t2 = new Test(new StringBuffer("hi"));
		} }
			A	1	StringStringBuffer	ObjectStringBuffer	TestObject	StringBufferStringBuffer

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
115	4	Define class for Complex number with real and imaginary part. Describe constructor overloading method by using the constructors and instantiate its object. Also define addition method to add Complex objects		5				
116	4	It is required to compute SPI (semester performance index) of n students of a class for their registered subjects in a semester. Assume that all students register for 6 subjects and each subject carry 5 credits. follow method for computation of SPI. Declare a class called student having following data members: id_no, marks_obtained(out of 100) for 6 subjects and spi. Define constructor, display and calculate_spi methods. Define main to process data of n students Use SPI calculation formula (sub1*credits+sub2*credits+sub3*credits+sub4*credits+sub5*credits+sub6*credits)/(total credits*10)		7				
117	4	create a default constructor which is used to display the initialized attributes(first name,last name & age) in the Student object.		5				
118	4	Write a Java Program to calculate area of Circle and Rectangle using constructor overloading.		5				
119	4	Define Class named point which represents 2-D Point, i.e P(x, y). Define Default constructor to initialize both data member value 5, Parameterized constructor to initialize member according to value supplied by user. Define Necessary Function and Write a program to test class Point.		5				
120	4	Create copy constructor which is used for copying the values of one object to another object.		5				
		TOPIC NAME:-this keyword and its uses						

121	4	class Main{
		String a="LJ";
		public void Main(String a)
		{
		System.out.print(this.a);
		}
		public Main(){
		a="Test-4";
		System.out.print(this.a+" ");
		}
		public static void main(String[] args){
		Main m1=new Main();
		m1.Main("All the best");
		}}
			C	1	LJ	LJ All the best	Test-4 Test-4	LJ Test-4

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

122	4	What is the output of the Java code snippet?
		class This {
		static String these = "this";
		public void show(){
		this = null; }
		public static void main (String[] args) {
		This t = new This();
		t.show();
		System.out.println(these); }
		}
			D	1	this	null	NULL	error

123	4	What will be the output of following program?
		class ConstructorCheck {
		ConstructorCheck() {
		this(20);
		System.out.print("One");
		}
		ConstructorCheck(int i) {
		this(null);
		System.out.print("Two");
		}
		ConstructorCheck(ConstructorCheck constructorCheck) {
		System.out.print("Three");
		} }
		class Main {
		public static void main(String[] args) {
		new ConstructorCheck(new ConstructorCheck(20));
		} }
			A	1	ThreeTwoThree	OneTwoThree	TwoTwoThree	Compile Error

124	4	Write a Java Program to display the details of student(rollno,name and marks) using this keyword.		5				
125	4	Write a Java Program to calculate the addition and subtraction of two values using this keyword.		5				
126	4	Write a Java program with or without using concept of this keyword.		5				
127	4	Write a Java program to find percentage of student using this keyword.		5				
128	4	Write a Java program to swap two numbers using this keyword.		5				
129	4	Write a Java program to find maximum of three numbers using this keyword.		5				

TOPIC NAME:-static keyword: variable, method, block, class, instance variable, instance block

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

130	4	What will be the Output of following code?
		class Demo
		{
		// static variable
		static int x = 10;
		static int y;
		// static block
		static {
		y = x * 4;
		}
		public static void main(String[] args){
		System.out.println(“Value of x : “+x);
		System.out.println(“Value of y : “+y);
		}}
			A	1	Value of x: 10
					Value of y: 40
						Value of x: 40
						Value of y: 10
							Value of x: 10
							Value of y: 10
								None of these

131	4	What will be the output of following Java code?
		class Student8{
		int rollno;
		String name;
		static String college ="ITS";
		Student8(int r,String n){
		rollno = r;
		name = n; }
		void display (){System.out.println(rollno+" "+name+" "+college);}
		public static void main(String args[]){
		Student8 s1 = new Student8(111,"Karan");
		Student8 s2 = new Student8(222,"Aryan");
		s1.display();
		s2.display(); } }
			A	1	111 Karan ITS
					222 Aryan ITS
						222 Karan ITS
						222 Aryan ITS
							111 Karan ITS
							222 Karan ITS
								111 Aryan ITS
								222 Aryan ITS

132	4	What will be the output of following program?
		class TEST {
		　static int i;
		
		　public static void main(String arg[]) {
		　　i = 1;
		
		　　for (int j = 1; j < 5; j++) {
		　　　int k = i;
		　　　i++;
		　　　System.out.print((++k + i) + " ");
		　　}
		　}
		}
			B	1	2 3 4 5	4 6 8 10	3 4 6 8	None of the above

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
133	4	What are the restrictions that are applied to the Java static methods?	C	1	The static method can not use non-static data member or call the non-static method directly.	this and super cannot be used in static context as they are non-static.	Both A & B are true	none of these

134	4	What is the output of the following program?
		class TestOuter2{
		static int data=30;
		void display(){
		}
		TestOuter2(){
		data = data+10;
		}
		static {
		data = 40;
		}
		public static void main(String args[]){
		TestOuter2 t = new TestOuter2();
		System.out.println(data);
		}}
			C	1	30	40	50	60

135	4	What is the output of the Java code snippet?
		class Demo {
		static int x = 10;
		static int y;
		static {
		y = x * 4;
		}
		public static void main(String[] args) {
		System.out.println("x:"+ y +" y:"+ x);
		}}
			A	1	x:40 y:10	x:10 y:40	x:10 y:0	Error

136	4	What is the output of the Java code snippet?
		class Skill {
		static void swimming(){
		System.out.print("Easy");}
		class Student {
		void swimming(){
		System.out.print("Not easy");}
		}
		public static void main(String args[]){
		Skill c = new Skill();
		Skill.Student s = c.new Student();
		c.swimming(); }}
			A	1	Easy	Not easy	Easy Not easy	Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

137	4	Output of following Java program?
		class test{
		int x = 10;
		static int y = 5;
		}
		class run {
		public static void main(String[] args) {
		test t = new test();
		t.x = 15;
		t.y = 20;
		test P = new test();
		System.out.print(P.x + P.y);}}
			B	1	15	30	1020	Compile Error

138	4	What is the output of the Java code snippet?
		class Demo{
		  static int x = 1;
		  static {
		    x = ++x;}
		  static void m1(){
		    int y=x+1;
		    System.out.println("Value of x : "+x);
		    System.out.println("Value of y : "+y);}}
		class run{
		  public static void main(String[] args){
		    Demo d=new Demo();
		    d .m1(); }
		  static {
		    System.out.println("LJ");}}
			B	1	LJ
					Value of x : 2
					Value of y : 0
						LJ
						Value of x : 2
						Value of y : 3
							Value of x : 0
							Value of y : 0
								Compile Error

139	4	What is the output of the Java code snippet?
		class Outer{
		static class Inner{
		int x=20;
		void m1(){
		System.out.print("Hello");
		System.out.println(x);
		}}}
		class run
		{
		public static void main(String args[])
		{
		new Outer.Inner().m1();
		}
		}
			C	1	Hello0	No Output	Hello20	Compile time error

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

140	4	What is the output of the following code?
		class Student{
		int id;
		static String name;
		Student(int id,String name){
		this.id = id;
		this.name = name;}
		void display()
		{System.out.print(id+" "+name);}
		public static void main(String args[])
		{
		Student s1=new Student(1,"x");
		Student s2=new Student(2,"y");
		s1.display();
		s2.display();
		}
		}
			C	1	1 x2 y	1 x2 x	1 y2 y	Compile time error

141	4	What is the output of the following Java code snippet?
		class MyFirst {
		  public static void main(String[] args) {
		    MyFirst obj = new MyFirst(n);}
		  static int a = 10;
		  static int n;
		  int b = 5;
		  int c;
		  public MyFirst(int m) {
		    System.out.println(a + ", " + b + ", " + c + ", " + n + ", " + m);}
		  static {
		    a = 60;
		  }}
			B	1	60, 30, 0, 20, 0	60, 5, 0, 0, 0	10, 5, 0, 0, 0	Compile time error

142	4	What is the output of the following Java code snippet?
		
		class Test{
		  static int a = 10;
		  static{ m1(); }
		  static void m1(){ System.out.print(j+" "); }
		  public static void main(String[] args) {
		    m1();
		    System.out.print(a+" "+k);
		  }
		  static int k;
		  static { a = 15; k = 5;}
		  static int j = 10;}
			B	1	0 10 10 0	0 10 15 5	10 15 5	Compile Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

143	4	What will be the output of following Java code?
		public class Test
		{
		static int i = 10;
		public Test ()
		{
		System.out.println(this.i);
		}
		public static void main (String args[])
		{
		Test t = new Test();
		}
		}
			A	1	10	0	compiler error	20

144	4	WAP that counts the number of objects created by using static variable.		5				
145	4	Write a program of counter by using static variable.		5				
146	4	Write program to print roll no, name, college name of three students using static method.		5				
147	4	Write a Java program to get cube of given number using static method.		5				
148	4	Write a Java program to find factorial of given number using static method.		5				
		TOPIC NAME:-static inner class						

149	4	class A
		{
		static class B
		{
		public static void main(int[] args) {
		System.out.println("Hello");
		}
		}
		public static void main(String[] args) {
		System.out.print("Hi");
		A.B.main(new int[3]);
		}
		}
			A	1	HiHello	HelloHi	Hi	Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

150	4	class Test{
		static int x=10;
		static void m1()
		{int x=100;}
		 static class A{
		static int x=1000;
		static void m2()
		{
		System.out.println(x);
		}}
		public static void main(String[] args) {
		Test t = new Test();
		Test.A.m2();}}
			C	1	10	100	1000	Error

151	4	What is the output of the Java code snippet?
		class TestOuter2{
		static int data;
		TestOuter2(){
		data = data+10;}
		static {
		data = 40;}
		static class Inner{
		Inner(){
		data = data + 100;}}
		public static void main(String args[]){
		int data=30;
		TestOuter2.Inner t = new TestOuter2.Inner();
		TestOuter2 t1 = new TestOuter2();
		System.out.println("data = "+t1.data);}}
			B	1	data = 30	data = 150	data = 50	data = 80

152	4	What will be the output of the following Java program?
		class A {
		void m(char c) {
		System.out.print(5 + "" + 7);
		}
		static class B {
		void m(int n) {
		System.out.print(5 + 7); }
		}
		}
		class run {
		public static void main(String args[]) {
		new A.B().m('b'); }
		}
			C	1	57	5b7	12	Runtime Error

153	4	Write a Java Program to access variable of static inner class without creating an object of the outer class		5				

UNIT -5 - Inheritance and Package
TOPIC NAME:-Inheritance and it's Types, Inheriting Data members and Methods

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

154	5	Will this code run successfully? If yes, what will be the output?
		class A {
		  static int x = 50;
		
		  void m1(int x) {
		
		    System.out.println(x);
		  }}
		class B extends A {
		}
		class Test {
		  public static void main(String[] args) {
		    A a = new A();
		    a.m1();
		  }
		}
			D	1	30	40	50	Compiler error

155	5	Will this code run successfully? If yes, what will be the output?
		class A {
		  int x = 50;
		
		  void m1() {
		    System.out.println(x);
		  }}
		class B extends A {
		}
		class Test {
		  public static void main(String[] args) {
		    A a = new B();
		    a.m1();
		  }
		}
			C	1	30	40	50	Compiler error

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

156	5	What is the output of the Java code snippet?
		class A {
		  int x = 20;
		}
		class B extends A {
		  int x = 30;
		}
		class Test {
		  public static void main(String[] args) {
		    A a = new A();
		    System.out.print(a.x);
		    B b = new B();
		    System.out.print(b.x);
		  }}
			C	1	20	3020	2030	30

157	5
	
	5
		What is the output of the following Java code snippet?
		class Test {
		  int marks = 25;
		  boolean isPass(double marks) {
		    if (marks >= 12.5 && marks <= 25) {
		      return true;
		    } else {
		      return false; } }
		  Test() {
		    System.out.print(isPass(marks / 2)); } }
		class T4 extends Test {
		  String result;
		  T4() {
		    if (isPass(marks)) {
		      result = "celebrate";
		    } else {
		      result = "Read";}
		    System.out.print(result); } }
		class Run {
		  public static void main(String[] args) {
		    T4 t4 = new T4();} }
			C	1	FALSE	celebrate	falsecelebrate	Error

158	5	What is the output of the below Java program?
		class Abc {
		  int count = 10;}
		class Xyz extends Abc {
		  int count = 15;
		  void run() {
		    System.out.print("Count=" + this.count + " ");
		    System.out.print("Count=" + super.count + " ");
		    System.out.print("Count=" + count + " "); }
		  public static void main(String[] args) {
		    Xyz obj1 = new Xyz();
		    obj1.run();
		  }}
			A	1	Count=15 Count=10 Count=15	Count=10 Count=10 Count=15	Count=15 Count=10 Count=10	None of these

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

159	5	//What will be the output of following code?
		class A {
		  int x = 10;
		  class B extends A {
		    int x = 30;
		    void m1() {
		      System.out.println(super.x);
		  } } }
		class Test {
		  public static void main(String[] args) {
		    A a = new A();
		    A.B b = a.new B();
		    b.m1();
		  } }
			A	1	10	30	30 10	error

160	5	What is output?
		class ClassInheritance {
		  public static void main(String s[]) {
		    A a = new A();
		    a.i = 4;
		    B b = new B();
		    b.i = 10;
		    b.j = 20;
		    a = b;
		    System.out.println("i = " + a.i);
		  } }
		class A {
		  int i;
		}
		class B extends A {
		  int j;
		}
			B	1	i = 20	i = 10	i = 0	error

161	5	Java program to implement single inheritance between class Subject & Java. Class java is a child class of class Subject. Class Java has a method called displayMarks() and class Subject has a method called display (). Show usage of single inheritance in Java with above classes.		5				
162	5	Show the usage of Multi Level Inheritance with class Base - Derived1 and Derived2. Base class have method baseDisplay (), and other classes have methods like derived1Display() and derived2Display().		5				

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
163	5	LJ Institute of Engineering and Technology have following hierarchy in their academics. Under the class HOD we have Multiple Faculties and Each Faculty Have Multiple Students for mentoring. Show the usage of hierarchical inheritance in the following way. Class HOD1 is inherited by Class Faculty1 and Faculty2. Class Faculty1 is Further Extended By Student1 and Faculty2 is extended By Student2. Create necessary methods like displayHOD1(), displayFac1(), displayFac2(), displayStd1(), displayStd2(). Show usage of hierarchical inheritance by creating object of last child classes Student1 and Student2 by calling parent class methods with objects of them.		5				
164	5	Create a class named 'Member' having the following members: Data members 1 - Name 2 - Age 3 - Phone number 4 - Address 5 - Salary It also has a method named 'printSalary' which prints the salary of the members. Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and 'Manager' classes have data members 'specialization' and 'department' respectively. Now, assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same.		5				
165	5	Create a class named 'Shape' with a method to print "This is This is shape". Then create two other classes named 'Rectangle', 'Circle' inheriting the Shape class, both having a method to print "This is rectangular shape" and "This is circular shape" respectively. Create a subclass 'Square' of 'Rectangle' having a method to print "Square is a rectangle". Now call the method of 'Shape' and 'Rectangle' class by the object of 'Square' class.		5				
166	5	Create a class named 'Rectangle' with two data members 'length' and 'breadth' and two methods to print the area and perimeter of the rectangle respectively. Its constructor having parameters for length and breadth is used to initialize length and breadth of the rectangle. Let class 'Square' inherit the 'Rectangle' class with its constructor having a parameter for its side (suppose s) calling the constructor of its parent class as 'super(s,s)'. Print the area and perimeter of a rectangle and a square. Print the area of 10 squares.		5				

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
167	5	Create a class with a method that prints "This is parent class" and its subclass with another method that prints "This is child class". Now, create an object for each of the class and call 1 - method of parent class by object of parent class 2 - method of child class by object of child class 3 - method of parent class by object of child class		5				
		TOPIC NAME:- Method overriding						

168	5	Output of following Java Program?
		class Base {
		  public void show() {
		    System.out.println("Base::show() called");
		  }
		}
		
		class Derived extends Base {
		  public void show() {
		    System.out.println("Derived::show() called");
		  }}
		public class Main {
		  public static void main(String[] args) {
		    Base b = new Derived();;
		    b.show();}}
			A	1	Derived::show() called	Base::show() called	Both A and B	None of these

169	5	class Base {
		  public static void show() {
		    System.out.println("Base::show() called");
		  }
		}
		class Derived extends Base {
		  public static void show() {
		    System.out.println("Derived::show() called");
		  }
		}
		class Main {
		  public static void main(String[] args) {
		    Base b = new Derived();
		    b.show();
		  }}
			A	1	Base::show() called	Derived::show() called	Compiler Error	None of these

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

170	5	Output of following Java program?
		class Base {
		  public void Print() {
		    System.out.println("Base");} }
		class Derived extends Base {
		  public void Print() {
		    System.out.println("Derived"); }}
		class Main{
		  public static void DoPrint(Base o) {
		    o.Print(); }
		  public static void main(String[] args) {
		    Base x = new Base();
		    Base y = new Derived();
		    Derived z = new Derived();
		    DoPrint(x);
		    DoPrint(y);
		    DoPrint(z);}}
			A	1	Base
					Derived
					Derived
						Base
						Base
						Derived
							Base
							Derived
							Base
								Compiler Error

171	5
	
	5
		Predict the output of following Java Program
		// filename Main.java
		class Grandparent {
		  public void Print() {
		    System.out.println("Grandparent's Print()");
		  }
		}
		class Parent extends Grandparent {
		  public void Print() {
		    System.out.println("Parent's Print()");
		  }
		}
		class Child extends Parent {
		  public void Print() {
		    super.super.Print();
		    System.out.println("Child's Print()");
		  }
		}
		
		public class Main {
		  public static void main(String[] args) {
		    Child c = new Child();
		    c.Print();
		  }
		}
			A	1	Compiler Error in super.super.Print()	Grandparent's Print()
						Parent's Print()
						Child's Print()
							Runtime Error	None of these

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

172	5	What is the output of the below Java program with inheritance?
		class Sweet{
		 void price()
		 {
		   System.out.print("Sweet=$10 ");
		 }}
		class Sugar extends Sweet{
		 void price(){
		   super.price();
		   System.out.print("Sugar=$20");}}
		public class JavaInheritance1{
		 public static void main(String[] args) {
		  Sugar su = new Sugar();
		  su.price();
		 }}
			A	1	Sweet=$10 Sugar=$20	Sweet=$10 Sugar=$10	Sweet=$20 Sugar=$20	Compiler Error

173	5	What will be the output of the following Java program?
		  class A {
		    int i;
		    void display() {
		      System.out.println(i); }}
		  class B extends A {
		    int j;
		    void display() {
		      System.out.println(j);}}
		  class inheritance_demo {
		    public static void main(String args[]){
		      B obj = new B();
		      obj.i=1;
		      obj.j=2;
		      obj.display(); }}
			C	1	0	1	2	Compile Time Error

174	5	class A {
		   int x = 20;
		}
		class B extends A {
		  int x = 30;}
		class Test {
		   public static void main(String[] args) {
		     B b = new B();
		     System.out.print(b.x+ ",");
		     A a = new A();
		     System.out.print(a.x+ ",");
		     A a2 = new B();
		     System.out.println(a2.x); }}
			B	1	20,20,30	30,20,20	30,30,30	30,20,30

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

175	5	What is the output of the Java code snippet?
		class Base extends Derived {
		  public static void main(String args) {
		    System.out.print("Derived");
		  }}
		class Derived {
		  public static void main(String args[]) {
		    System.out.print("Base");
		  }}
			A	1	Base	Derived	Base Derived	None of these

176	5	Output of following Java program?
		class Const {
		  Const() {
		    System.out.print("A");
		  }}
		class B extends Const {
		  B(float a) {
		    System.out.print("B");
		  }
		  B(double a) {
		    System.out.print("C");
		  }}
		class run {
		  public static void main(String[] args) {
		    B obj = new B(5.0); }}
			B	1	AB	AC	BA	BC

177	5	What is the output of the following Java code snippet?
		class Test {
		  int x = 10;
		  int y = 20;
		  void method1() {
		    System.out.print(x + "" + y); }}
		class T3 extends Test {
		  int x = 100;
		  static int z = 300;
		  void method1() {
		    System.out.print(x + "" + y);
		    System.out.print(this.x + "" + this.y); }}
		class T4 extends T3 {
		  int x = 50;
		  int y = 100;
		  static int z = 150;
		  void method1() {
			A	1	5010015010020300	121501020150	50250100320	error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
	5	```int x = 1;``` ```int y = 2;``` ```System.out.print(this.x + "" + this.y + this.z);``` ```System.out.print(super.x + "" + super.y + super.z);``` ```}``` ```public static void main(String[] args) {``` ```T4 t4 = new T4();``` ```t4.method1();``` ```}}```						
178	5 / 5	What is the output of the following Java code snippet? ```class A {``` ```static int x;``` ```A(int x) {``` ```this.x = x;}``` ```A() {``` ```int y = 10;``` ```System.out.print(y);}``` ```void methodA() {``` ```System.out.print(x); }``` ```static class B extends A {``` ```int x;``` ```B() {``` ```System.out.print(super.x); }``` ```void methodB() {``` ```methodA();``` ```System.out.print(x); }}}``` ```class Test {``` ```public static void main(String[] args) {``` ```A obj = new A(5);``` ```A.B obj1 = obj.new B();``` ```obj1.methodB();``` ```}}```	D	1	10550	550	5500	Compile Time Error
179	5	What is the output of the below Java program? ```class Abc {``` ```int flag = 10;``` ```Abc() {``` ```System.out.print(" " + flag + " ");}``` ```Abc(int a) {``` ```System.out.print(" " + a + " ");}}``` ```class Xyz extends Abc {``` ```int count;``` ```Xyz() {``` ```super(20);}``` ```Xyz(int a) {``` ```}``` ```public static void main(String[] args) {``` ```Xyz obj1 = new Xyz();``` ```Xyz obj2 = new Xyz(10);``` ```}}```	C	1	30 10	10 20	20 10	None of these

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

180	5	What is the output of the below Java program?
		class Abc {
		  void display() {
		    System.out.print(" Hello ");
		  }}
		class Xyz extends Abc {
		  void display() {
		    this.display();
		    System.out.print(" Hi ");
		  }
		  public static void main(String[] args) {
		    Xyz obj1 = new Xyz();
		    obj1.display();
		  }}
			D	1	HelloHi	HelloHiHii	HiiHelloHi	Error

181	5	What will be the output of following code?
		class cat {
		  void eat(cat c1) {
		    System.out.print("Cat eats food"); } }
		class cattle extends cat {
		  void eat(cattle c2) {
		    System.out.print("Cattle eats food"); }}
		class horse extends cattle {
		  void eat(horse c3) {
		    System.out.print("Horse eats food");
		  }}
		class Test {
		  public static void main(String args[]) {
		    cat c = new cat();
		    horse h = new horse();
		    h.eat(c);
		  }}
			B	1	Cattle eats food	Cat eats food	Horse eats food	error

182	5	What will be the output?
		class Main {
		  String a = "LJ";
		  public void display() {
		    System.out.print("Welcome"); } }
		class Main1 extends Main {
		  String a = "First year";
		  void display() {
		    super.display();
		    System.out.print(this.a + " ");
		    System.out.print(super.a + " "); }
		  public static void main(String[] args) {
		    Main m1 = new Main();
		    m1.display(); } }
			C	1	LJ	Welcome	Compile time error	Run time error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D
183	5	Write a JAVA program to create a super class called figure that storesthe dimensions of a two-dimensional object. It also defines a method called area () that returns the area of an object. The program derives two sub classes from figure. The first is rectangle and the second is Triangle. Each of these subclasses overrides area (), so that it returns the area of a rectangle and a triangle respectively.		5				
184	5	The Vegetable class has three subclasses named Potato, Brinjal and Tomato. Write an application that demonstrates how to establish this class hierarchy. Declare one instance variable of type String that indicates the color of a vegetable. Create and display instances of these objects. Override the toString() method of Object to return a string with the name of the vegetable and its color.		5				
185	5	Write an application that illustrates method overriding . Class Aclass is extended by Bclass.each of these classes defines a display() method that outputs the string "I am in Aclass" or "I am in Bclass", respectively.		5				
186	5	Declare a class called book having author_name as data member. Extend book class to have two sub classes called book_publication & paper_publication. Each of these classes have member called title. Write a complete program to show usage of method overriding to display book or paper publications of given author. (Use Scanner class for inputting data)		5				
		TOPIC NAME:- super and final keyword						

187	5	class Base {
		  final public void show() {
		    System.out.println("Base::show() called");
		  }}
		class Derived extends Base {
		  public void show() {
		    System.out.println("Derived::show() called");
		  }
		}
		class Main {
		  public static void main(String[] args) {
		    Base b = new Derived();;
		    b.show();
		  }
		}
			C	1	Base::show() called	Derived::show() called	Compiler Error	Runtime Error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

188	5	What will be the output of the following Java program?
		  class A {
		    int i;}
		  class B extends A {
		    int j;
		    void display() {
		      super.i = j + 1;
		      System.out.println(j + " " + i); }}
		  class inheritance {
		    public static void main(String args[]) {
		      B obj = new B();
		      obj.i=1;
		      obj.j=2;
		      obj.display(); } }
			C	1	2 2	3 3	2 3	3 2

189	5	What will be the output of the following Java program?
		  class A {
		    public int i;
		    public int j;
		    A() {
		      i = 1;
		      j = 2;} }
		  class B extends A {
		    int a;
		    B() {
		      super(); } }
		  class super_use {
		    public static void main(String args[]){
		      B obj = new B();
		      System.out.println(obj.i + " " + obj.j) ; }}
			A	1	1 2	2 1	Runtime Error	Compilation Error

190	5	What will be the output of the following Java program?
		  class A {
		    public int i;
		    public int j;
		    A() {
		      i = 1;
		      j = 2;}}
		  class B extends A {
		    int a;
		    B() {
		      super();}}
		  class super_use {
		    public static void main(String args[]) {
		      B obj = new B();
		      System.out.println(obj.i + " " + obj.j); }}
			A	1	1 2	2 1	1 3	error

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

191	5
	
	5
		What will be the Output of following code?
		class M {
		  static {
		    System.out.print('A');}
		  public M() {
		    System.out.print('B'); }
		  public M(String S) {
		    System.out.print('C'); }}
		class N extends M {
		  static {
		    System.out.print('D');}
		  public N() {
		    super("hello");
		    System.out.print('F'); }}
		class MainClass {
		  public static void main(String[] args) {
		    N n = new N();}}
			B	1	ABCF	ADCF	ABCD	AFDC

192	5	What will be the Output of following code?
		class School {
		  double index;
		  School(double index) {
		    this.index = index;} }
		class Student extends School {
		  int RN;
		  String name;
		  Student() {
		    super(11.0);
		    this(1, "Deep"); }
		  Student(int RN, String name) {
		    this.RN = RN;
		    this.name = name; }
		  public static void main(String[] arg) {
		    Student s1 = new Student();
		    System.out.println(s1.RN + " " + s1.name + " " + s1.index); }}
			D	1	1 Deep 11	11 Deep 11	11 Deep 1	error

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

193	5	What is the output of the Java code snippet?
		class A {
		  A() {
		    super();
		    System.out.print("Java");
		  }
		}
		class B extends A {
		  public static void main(String args[]) {
		    B b = new B();
		    System.out.print("Core");
		  }
		}
			D	1	JAVACORE	COREJAVA	CoreJava	JavaCore

194	5	What is the output of the Java code snippet?
		class Topic {
		  static void Array() {
		    System.out.print("Easy");
		  }}
		class Study extends Topic {
		  final static void Array() {
		    System.out.print("Not easy");
		  }
		  public static void main(String args[]) {
		    Study s = new Study();
		    s.Array();
		  }}
			C	1	Easy	Easy Not easy	Not easy	error

195	5	What is the output of the Java code snippet?
		class Liquid {
		  final void pour() {
		    System.out.print("Hi");
		  }}
		class Juice extends Liquid {
		  void filter() {
		    System.out.print("Bye");
		  }
		  public static void main(String args[]) {
		    Juice j = new Juice();
		    j.pour();
		  }}
			A	1	Hi	Bye	Hi Bye	Hi Hi

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

196	5	What will be the output of the following Java program?
		class A {
		  void m() {
		    System.out.print("A");
		  }}
		class B extends A {
		  final void m() {
		    System.out.print("B");
		  }}
		class run {
		  public static void main(String args[]) {
		    B bob = new B();
		    bob.m();
		  }}
			A	1	B	A	A B	B A

197	5	What will be the output of the following program?
		class A {
		  void m() {
		    System.out.print("O"); } }
		class B extends A {
		  void m1() {
		    super.m();
		    System.out.print("K"); }
		  class C {
		    void m() {
		      System.out.print("L");
		      m1(); } } }
		class run {
		  public static void main(String args[]) {
		    B bob = new B();
		    B.C cob = bob.new C();
		    cob.m(); } }
			C	1	LKO	KOL	LOK	OKL

198	5	Output of following Java program?
		class A {
		  void m() {
		    System.out.print("P");
		  }}
		class B extends A {
		  final void m() {
		    System.out.print("C");
		  }}
		class run {
		  public static void main(String args[]) {
		    A aob = new A();
		    aob.m();
		  }}
			D	1	PC	CP	C	P

| Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

199	5	//Output of following Java program?
		class A {
		  void m(int n) {
		    System.out.print("A");}}
		class B extends A {
		  void m(int a, int b) {
		    super.m(5);
		    System.out.print("B"); }}
		class c extends B {
		  void m(int ab) {
		    super.m('L', 'J');
		    System.out.print("C"); }}
		class run {
		  public static void main(String args[]) {
		    c ob = new c();
		    ob.m('W');
		  }}
			A	1	ABC	CBA	BCA	ACB

200	5	What is the output of the below Java program?
		class Abc {
		  public void display() {
		    System.out.print(" Hello ");
		  }}
		class Xyz extends Abc {
		  void display() {
		    super.display();
		    System.out.print(" Hi ");
		  }
		  public static void main(String[] args) {
		    Xyz obj1 = new Xyz();
		    obj1.display();
		  }}
			D	1	HelloHi	HelloHiHii	HiiHelloHi	Error

201	5	What will be the output of following Java code ?
		class Hello {
		  void display() {
		    System.out.print(" Hello ");
		  }
		}
		class Hi extends Hello {
		  final void display() {
		    System.out.print(" Hi ");
		  }
		  public static void main(String[] args) {
		    Hi obj1 = new Hi();
		    obj1.display();
		  }}
			A	1	Hi	Hi Hello	Hello	None of these

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

202	5	What will be the output of following Java code ?
		class Hello {
		  final double a;
		  static final int b;
		  static {
		    b = 6;
		  }
		  Hello() {
		    a = b;
		  } }
		class Hi extends Hello {
		  Hi() {
		  }
		  public static void main(String[] args) {
		    Hi obj1 = new Hi();
		    System.out.print(obj1.a + " " + b);
		  } }
			C	1	0.0 6	6 0.0	6.0 6	error

203	5	What is the output of the Java code snippet?
		class Mclass {
		  final int a = 1; }
		class Nclass extends Mclass {
		  double b;
		  void set() {
		    b = 2; }
		  void show() {
		    System.out.print("a= " + a);
		    System.out.print("b= " + b); }}
		class Oclass extends Nclass {
		  Oclass() {
		    super();
		    b = 45.678; }}
		class run {
		  public static void main(String args[]) {
		    Oclass n2 = new Oclass();
		    Nclass n1 = new Nclass();
		    n1.set();
		    n1.show();
		    n2.show(); }}
			B	1	a= 1b= 2a= 1b= 45.678	a= 1b= 2.0a= 1b= 45.678	a= 1.0b= 2.0a= 1b= 45.678	None of these

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

204	5	What is the output of the Java code snippet?
		class A {
		  final int a = 7;
		  A() {
		    new B().show(); }}
		class B extends A {
		  B() {
		    super();
		    System.out.print(super.a);}
		  final void show() {
		    System.out.print("a= " + a); }}
		class run {
		  public static void main(String args[]) {
		    new B().show();}}
			D	1	7a= 7	a=7a= 7	Compile time error	Run time error

205	5	What is the output of the Java code snippet?
		class A {
		  void show() {
		    System.out.print("HELLO");
		  }}
		class B extends A {
		  B() {
		    System.out.print("CONSTRUCTOR");
		  }
		  final void show() {
		    System.out.print("HI");
		  }}
		class run {
		  public static void main(String args[]) {
		    new B().show();
		  }}
			A	1	CONSTRUCTORHI	HI	HELLOCONSTRUCTORHI	Compile time error

206	5	What will be the output of the following Java program?
		class Demo extends demo1 {
		  int birds = 10;
		  Demo() {
		    this(20);
		  }
		  Demo(int birds) {
		    super();
		    System.out.println("Birds=" + birds);
		  }}
		class demo1 {
		  public static void main(String[] args) {
		    Demo con = new Demo();
		  }}
			C	1	birds=20	Birds=10	Birds=20	None of these

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Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

207	5	What will be the output?
		class A {
		  int i; int j;
		  A() {
		    i = 1;
		    j = 2;
		  } }
		class B extends A {
		  int a;
		  B() {
		    i = 10; j = 20;
		    super(); }}
		class super_use {
		  public static void main(String args[]) {
		    B obj = new B();
		    System.out.println(obj.i + " " + obj.j);
		  }}
			C	1	10 20	1 2	Compile time error	Run time error

208	5	Write a Java code to show use of super keyword with variables. Create class vehicle with variable maxSpeed = 120. Class car has variable maxSpeed and display method. Class car is child class of Vehicle. User super keyword to access maxSpeed from vehicle to car and make a display() method to print maxSpeed of both classes.		5				
209	5	Use of final variable: Create class Circle with final variable CIRCLE_PI. Create method area() to calculate area of circle by using variable CIRCLE_PI in area formula.		4				

210	5	create class animal with
		static final int NUM_LEGS = 4;
		static final int NUM_EARS = 2;
		static final int NUM_EYES = 2;
		static final int HAS_TAIL = 1;
		create final method displayCharacteristics() that shows above variables.
		Create class Cow - which extends Animal
		Try to override displayCharacteristics().
		If it is not able to override then create new method in Cow with name displayAdditionalCharacteristics(). That shows Hi Cow Additional Characteristics in method.
		Use object of Cow and try to call method of both classes.
				4				

211	5	Can we extend final class? Try to implement this in code. Create a final class with name Animal and extend it in class Tiger. Animal should have a static method display() and Tiger has method displayTiger().		4				
		TOPIC NAME:- Use of Package, Import statement, Access Modifiers						

Note : This Practic book is only for reference purpose. LJU Test question paper may not be completely set from this practice book.

Sr No	Unit Number	Question_Text	MCQ Answer	Marks	Option A	Option B	Option C	Option D

212	5	Will this code compile successfully? If yes, what is the output? If no, identify the errors. package pack1;
		public class A { private int x = 50; protected int y = 100; int z = 200;
		}
		package pack2;
		import pack1.A;
		public class B extends A {
		}
		import pack2.B;
		public class Test {
		public static void main(String[] args) { B b = new B(); System.out.println(b.x); System.out.println(b.y); System.out.println(b.z); } }
			D	1	50	100	200	Compiler Error

213	5	What is the output of the below Java program with packages?
		//MathClas.java package package1; public class MathClass
		{
		public static int getRandom()
		{
		//returns a random number from 0 to 999 return ((int) (Math.random() * 1000));
		}
		}
		//PackageTest3.java import package1.*;
		public class PackageTest3
		{
		public static void main(String[] args)
		{
		System.out.print(MathClass.getRandom());} }
			C	1	No output	Compiler error	484 (some random number)	run time error

214	5	create class circle in pachake 1 and that class calculate the area of circle. Create a class Test in package 2 which print the area of circle of package 1.		5				