Object Oriented Programming with Java eDAC Sept 21



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System.out.println("i >> 1 = " + (i >> 1)); System.out.println("j >> 1 = " + (j >> 1)); A.

Prints "i >> 1 = 8"

```
"j » 1 = 8"
```

- B. Prints "i >> 1 = 7" "j » 1 = 7"
- C. Prints "i >> 1 = 8"

D. Prints "i >> 1 = 7"

2. What is the output of the following code?

```
int i = 45678; intj = -i; system.out.println(j);
```

- A. Compilation error at line 2-. ~ operator applicable to boolean values only.
- B. prints 45677.
- c. Prints -45677. D.

Prints -)45679.

3. What will happen when you invoke 'the following method? void infiniteLoop()

```
{
byte b = 1; while ( ++b > 0 ); System.out.println("Welcome to Java");
```

- A. The loop never ends(infiniteLoop).
- B. Prints "Welcome to Java". '
- C. Compilation error at line 5. ++ operator should not be -~ used for byte type variables.
- D. Prints nothing.



A. platform dependant		B. platform Inde	pedent
11. jvm ls	-,	.,,	,
10. Which line out of the follo A. boolean b=null;	owing will compile without a wa B. float f=1.3;	arning or an error? C. byte b=257;	D. int i=10;
D. depends on the particular i	implementation of the Java Vir	tual machine	
C. -255 to 256			
B. (-2 power 8)-1 to 2 power	8		
A128 to 127	. 1		
9. What is the size of a byte da	atatype?		
•	ection of an object by setting al	•	
-	not taken, the garbage collector	=	still in use.
	cuted from a method, runs garb	page collector.	
B. The garbage collector is a	-		
Java provides automatic garb			
8. Which of the following state	ements is/ are true? A.		
E. private static void main(Str	ring args[])		
D. public static void main(Str	ing args[])		
C. public static void main(Stri	ng arg[])		
B. public static int main(String	g arg[])		
A. public static void main()			
7 Which of the following are	the correc <mark>t signatur</mark> es for met	hod main()?	
A. –Infinity B. Infi	nity C. NaN	D. –NaN	
System.out.println(-1 * Doubl		D. N. N.	
6. When executed the following	- A		
		<i>lillil</i>	
D. Compilation error	iram Ma	mtui	
C. Prints 10,28 and 46.		_ A	
B. Prints 24,68 and 112.			
A.Prints12,34"and56. * ~			
System.out.println(k);			
System.out.println(j);			
System.out:println(i);	,		
inti = 012; intj = 034; int k = 05			
5. What will happen if you cor	mpile/ run this code?		
D. Prints 23, 5, 23 and 23.			
C. Prints 5, 5, 5 and 23.			
B. Print s 23,6,5 ,2,3			
A. Compilation, error at line 3			
System.out.printin(2*+ 3); Sys	stem.out.println(2 + 3 +"")-; sys	stem.out;println(2+""+3);	
System.out.printin(" " +2 + 3);	;		
4. What is the output for the i	following lines of code?		



C. depends on Jvm implementation			D. Both b and c		
12. return type of n A. int	nain method is B. char	C. void	D. None of the ak	oove	
13. Garbage collecti	on works on				
A. heap	B. queue	C. tree	D. None of the a	above	
14. What will be pri (i) { case O: System.out.prinUn(' System.out.println('	'zero"); break; case		n the following code int i=	:1; switch	
System.out.print System.out.println('	Jn("two"); default: 'default");				
A. One	B. one, default	ım Ma	ne,two,default	D. Default	
	t, which value is use e's B. th	ed when shop() is execute class variable's	called Walmart has the sauting? ethis would cause a comp		
16. void main() { int k=35,*z,*y; z=&k %d",k,++*z,*y++); }	; y=z *z =++*y; k <mark>++;</mark>	printf("%d			
A. 363637	В. 383837	C. 373737	D. none of these		
17. what is the outp int fun (int i) { printf("in funtions ir } void fun(int & i) { printf("in functions } main() { int i=9; fun(i)-; } A. ambiguity error	nt i"); int& i");	c program:	C. in funtions int	i	
A. ambiguity erro	or B. IN	runctions int& i	C. In funtions int	I	

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E. runtime error



```
D. syntax error
18. what will be the output of the following program? void
main()
{
char *s="12345s\n\t";
printf("%d",sizeof(s)+str|en(s));
}
                                                                                        E. 7
  A. 17
                      B. 14
                                            C. 12
                                                                  D. 10
19. char *f()
char *s=(char*)ma||oc(8);
strcpy(s, "goodbye");
return 5;
}
void main()
                  Shriram Mantri
char *f();
printf("%c", *f()='z');
                     B. zoodbye
  A. goodbye
                                             C.g
                                                                  D. 10
                                                                                        E.Z
20. what will be the output of the following program?
main()
{
Int,I;
Unsigned num=71;
For(i=16;I;--i)
Printf("%d",(num<<i&1<<16)?1:0);
}
}
  A. 000000000010111
                                 B. 1110001100000000
  C. 1110001000000000
                                 D. 01100000010000000
21. void main()
int y; unsigned int x=1; v="0; iflx==y) printf("equa|"); else
printf("not equal");
}
                     B. not equal
                                                                  C. compile time errortype mis-match
  A. equal
                     E. compile time error |value required
  D. runtime
```

AWT

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A. ItemListener

B. MouseListener

C. KeyListener

D. WindowListener

```
2. Given public class MyApp extends Applet
            public MyApp(int k)
}
What will happen to the above code?
A. compilation error "cannot instantiate MyApp"
B. runtime error "paint() method not available"
C. runtime error "InstantiationException"
D. compilation error "paint() not defined"
3. Given public class MyApp2 extends Applet
                 @Override
                                 am Mantri
          public void init()
setLayout(new GridBagLayout());
          GridBagConstraints gbc=new GridBagConstraints();
                                                                         gbc.gridwidth=3;
   gbc.gridheight=2;
                               add(new Button("ok"));
}
What will happen?
A. compiler error "add method must take 2<sup>nd</sup> argument as GridBagConstraints"
B. exception during runtime
C. Button will appear according to gridwidth and gridheight specified
D. Button will appear but not according to gridwidth and gridheight specified.
```

- 4. Select correct statement from the following
- A. BorderLayout is the default layout for Applet
- B. GridLayout can not work without GridBagConstraints
- C. pack() method displays window in a preferred size
- D. FlowLayout can not be used for swing components
- 5. Given setLayout(new BorderLayout()); add("south",new TextField(20)); What will happen to the above code?
- A. compiler error
- B. textfield will be displayed properly at south
- C. exception
- D. textfield will be displayed in the center, since u have given illegal argument.
- 6. Select the wrong statements from the following
- A. Applet extends Panel

B. FileDialog extends Dialog

C. Dialog

extends Frame

D. Window extends Container



7. Given public	c class Trial	extends Fram	е				
{	oublic Trial	(String mess)					
·		MenuBar mb= // here	=new Mei	nuBar();			
}	}						
} How will u add	"mh" to th	no framo?					
A. addMenuBa		B. setMenuBa	ır(mb);	C. mb.addN	ЛепиBar();	D. add(mb);	
8. Which meth A. getParamete		ired to read pa B. getInitPara		-	· -	D. none of thes	se
		er via HTTP, inv s an application		ng the HTT	P protocol or	n the user's compute	r and run on
A. A Java applio				-	. A Java app	- A	
C. A Java Servle		riro	1122	1.10.7.10.4	None of the a		\
this x and y spe		class method g	getLocatio	n() return:	s Point (conta	aing x and y cordinate	e).What does
	V	components I	lowe <mark>r-left</mark>	compone	nt in the coo	rdinate space of the o	component's
parent.		N.	/ /	7/			·
	-	f components	upper-le	ft compon	e <mark>nt in the</mark> co	ordinate space of the	e
component's p			1 . 6			adia atau a a a a Cata	D
None of the ab	-	components	upper-iem	compone	nt in the coo	rdinate space of the s	screen. D.
None or the do	,010						
11. When u inv	oke "repai	nt()", for <mark>a ligh</mark>	<mark>ntwei</mark> ght o	component	<mark>: , t</mark> he AWT p	ackage calls which co	mponent
method?			7				
A. repaint()		Β. ι	ıpdate()			C. paint()	D. draw()
			=			d myapplet into a we	eb page.
A. <applet <applet="" b.="" clas="" code<="" td=""><td></td><td></td><td>_</td><td>-</td><td></td><td></td><td></td></applet>			_	-			
• • •	,		•			. <applet param="mya</td"><td>annlet class</td></applet>	annlet class
width=100 h		_	. 100 1110	2007	, appier	. Tappier parami mye	appreticiass
13. What is the				e applet ta	g? A.		
B. A URL to the		=	-	zip file.			
C. Indicate the		• •			is relative.		
D. Defines the	horizontal	spacing aroun	d the app	let.			
14. Executable	annlet is n	othing hut	fil	e of annlet			
A. class		. java			D. applet		
45 Miles de la	tha falls	; :		retablic .		(/20)	

- 15. What does the following line of code do? TextField tf=new TextField(30);
- A. This code is illegal, as there is no such constructor available inside "TextField" class.

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- B. Creates the TextField object, that can hold 30 rows, but since it is not initialized to anything, it will be always empty.
- C. Creates a new TextField object that is 30 columns of text.
- D. This code creates a TextField object that can hold 30 rows of text
- 16. Select correct statement from the following
- A. Invisible components are required in SwingLayout
- B. BorderLayout is the default layout for JApplet
- C. The default lookandfeel for swing components is MotifLookAndFeel.
- D. Swing does not have DelegationEvent model.
- 17. Method to apply menubar to the swing container is:
- A. addMenuBar()

B. setJMenuBar()

C. setSMenuBar()

D. setMenuBar()

18. Select wrong statement from the following A.

FlowLayout is the default layout for Applet.

- D. Dy uerauit Frame is invisible.
 C. pack() method displays window in a preferred size
- D. None of these.
- 19. Given setLayout(new BorderLayout()); add(new TextField(20)); What will happen to the above code?
- A. compiler error
- B. exception
- C. textfield will not be displayed since u haven't mentioned an area.
- D. textfield will be displayed in the center.

```
20. Given import java.awt.*; public class MyFr2
{
    Button b1,b2;
    public MyFr2(String title)
             Frame f=new Frame(title);
           f.setLayout(new BorderLayout());
   b1=new Button("ok");
                                 b2=new
Button("cancel");
            f.setLayout(new FlowLayout());
                  f.add(b1);
                  f.add(b2);
             f.setSize(400,400);
              f.setVisible(true);
           }
    public static void main(String args[])
            new MyFr2("My Window");
           }
}
```

What will happen to the above code?

A. compiler error "can not set layout twice"

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- B. frame will be displayed with only one "cancel" button
- C. frame will be displayed with two buttons.
- D. exception during runtime.

Class Animal{void eat(){}} Class Dog extends Animal{}

Cloneable interface contain	CLONE REFL s "clone()" method	ECTION API	
A. True	B. False	2	
2) Clone method is declared as	s throws		
A. IOException C. CloneNotSupporte	dException	B. CloneNotFoundExe D. None of the above	•
3) Clone() method in Object cl A. Protected	ass is B. Public	C. Default	D.Private
4) If u override "clone()" meth A. Protected B. I	- Marian	odifier protected or public	D. Default
5) By default "clone" method	does		
A. Shallow copy Interface which does not cont		v and deep both copies 6	D. None
7) Inner class methods can acc A. True	B. False		D. Void
8) Static nested class methodsA. True	s can access outer class r B. False	A N	
9) There is one instance of class A. True	ss <mark>"Class" pe</mark> r class lo <mark>ad</mark> e B. False		
10) To instantiate a particular A. New Class B. Clas s	class through reflection s.newInstance	api we use C. Class.newCreate	D. None of the above
	COLLECT	TON API	
 One of the following throws A: Hashtable C: ArrayList 	В: Сору	onException if we try to m OnWriteArrayList currentHashMap	odify while iterating over it.
2. The default capacity and loa A: 12 and 0.60 B:	ad factor for Map impler 16 and 0.75 C: 20 ar		d 0.60
3. Given			

8

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Class Cat extends Animal{}	
Void disp(List super Dog mylist)	
Which of the following is the wrong argu	ment to disp?
A: ArrayList of Animal	B: ArrayList of Dog
C: ArrayList of Object	D: All the above are correct arguments.
4. Which statement is true ?	
A: List will allow u to add inside lis	st. B: List <object> will allow u to add inside list</object>
C: both A and B	D: we can pass ArrayList <integer> to List<object></object></integer>
5. Which collection class allows you to g	row or shrink its size and provides indexed access to its elements,
but whose methods are not synchronic	·
A: java.util.HashSet	B: java.util.LinkedHashSet
C: java.util.List	D: java.util.ArrayList
C. Which of the following does you Chris	an an language at a graph a graph a sing a language.
6. Which of the following class uses Strir	
a) Dictionary b) Array c) Array	yList d) Properties
7. Which of these class objects uses key	to store value? O. M. T. T. A.
	c) Map d) all if the mentioned
a) Hasiltable b) Dictionally	a) all if the mentioned
8. can be used to control the o	order of certain data structure and collection of object too.
	ral comparators
c) comparators	d) all of the above
c) comparators	a) an or the above
9. How does the set collection deal with	duplicate elements?
	to add an element with a duplicate value
	attempt to a <mark>dd an ele</mark> ment with a duplicate value
C. A set may contain elements that retur	n duplicate values from a call to the equals method
D. Duplicate values will cause an error at	·
•	ed by HashMap or HashSet while adding or retrieving entries.
	, == , hashcode()
these	, , , , , , , , , , , , , , , , , , , ,
11. If you try to invoke "remove()" method on iterator of CopyOnWriteArrayList , it raises following
exception	inethod of iterator of copyonwriteArrayList, it raises following
A: ConcurrentModificationException B:	UnsupportedOperationException C: IllegalOperationException
D: none of these	
12. Map implementation which p	provides both Thread-Safety as well as Concurrency.
	: HashMap C: HashTable D: none of these
13. Stream API is used to implem	ient
A: Internal iteration	B. External iteration

D. None of the above

C. Both A and B

9



14. A. True	In get () or put() of map implement B. False	ntation equals () is Called	l before ==.
15. A. LinkedLi	Algorithms are present inside. ist B. Collection C. Co	ollections	D. Hashtable
16. A. False	Iterator of ArrayList is Fail-Safe. B. True		
17. A. Runnabl C. Exter	All the Collection API implementa le B. Serializable rnalizable D. Compa		·
18. A. True	When you add any object inside (B. False	Collection API implement	ration class, its copy is added.
19. A. Vector	Whenever we create any implem B. None of these	entation of set it result in C. List	D. Map
20.	In map implementation when has	· · · · · · · · · · · · · · · · · · ·	ame it is called as?
A. Hashing	B. Hash Collision	C. Hash Clash	D. None of these
21. One of A. Compar	f the following allows us to defi <mark>ne t</mark> rator B. None of these	more than one strategies C. Enumera	
-	ot of list is created in case of OnWriteArrayList B. Lin	ked List C. Arraylist	D. Vector
23. One of A. StringBu	the followings is not T <mark>hread Saf</mark> e uffer B. Hashtable	C. Vector	D. none of these
order that	se that you would like to create an is the same as the iteration order tation of the Map interface should	of an existing instance of	a Map. Which concrete
A. TreeMa	•		C. LinkedHashMap
25.Which of Object?	class does not override the equals() and hashCode() metho	ds, inheriting them directly from class
=	lang.String lang.StringBuffer		B. java.lang.Double D. java.lang.Character
a.addElem	• • •	olowing lines of code? V	ector a = new Vector();
System.ou A. Prints 1	t.println(a.elementAt(0)_);	B. Prints 11.	
	u. tion error at line 3.	D. Prints 11.	<u>.</u>
-	parable is a	5 10	



A. interface	B. classes	C. Both 1 and 2	D.none of the above
Q.28 Arraylist is			
A. class		B. List implement	tation
C. Both a and b		D. None of the ab	ove
Q.29 hash code is u	ised by		
A. set	B. map	C. both a & b	D. None of the above
Q.30 Which of the f	following data st b) Hash	ructures implements FILO m c) Linked List	echanism d) Stack
Q.31 Which of the fa) Hashmap is three	ad-safe while Ha	shtable is not	
c) Both are thread-	safe	•	A
d) Both are not thre	ead-safe	am Mai	ntri
<u>_</u>			
		EXCEPTION	
1. Given Following	code: import ja	ava.io.*; class	
sub extends base			
{	void disp()+l	arous IOEvention	
	void disp()ti	nrows IOException	
	}		
}			
class base			
{	- 1 d - 1 - 1 - 1 - 1 - 1		
	voia aisp()tr	nrows Exception	
	}		
}	,		
public class myclass	S		
{			
	public statio	void main(String args[])	
	{	try	
	•	เ base b=new sub();	b.disp();
		}	δ.αι 3 ρ(),
		catch(Exception ee)	
		{	
		System.out.printl	n(ee);
		} • • • • • • • • • • • • • • • • • • •	
	_	System.out.println("done");	
}	}		
j			



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A. warning "done"	B. com	pilation error	C. runtime error	D. output
2. Which statement isA. we can have try aB. finally gets executedC. if system.exit is callednone of the above	nd finally without catc I irrespective whether	h exception is ra		at all D .
3. Class.forName requi A. ClassCastExceptio C. IllegalAccessExce	n B.	ving exception ClassNotFour		bove
4. Class.newInstance() A. IOException C. IllegalAccessExce	В.	following exce ClassNotFoun		
Given these two def class First { } class Second extend { } Now define a class " exceptions can Third A. Excep	void test()throws Ex { } s First void test() { } Third" derived from "S d's test() method throw	econd" and o	verride "test ()" m	ethod inside it. What eception2 can declare any checked
6. What letters get v		·	_	? public class MyClass
	public static void m {	ain(String arg	>[] <i>)</i>	

C. No checked exceptions

D. it can declare any checked exceptions

C. No checked exceptions

D. it can declare any checked exceptions

Fundamental output with the following code? public class MyClass MyCla

static void method()



```
{
                                                try
                                    {
                                                wrench();
                                                System.out.println("a");
                                    }
                                    catch(ArithmeticException ae)
                                                System.out.println("b");
                                    finally
                                                System.out.println("c");
                                    }
                                                System.out.println("d");
                        }
                        static void wrench()
                                    throw new NullPointerException
}
            A. A
                                    B. b
                                                            C. c
                                                                                    D. Compilation error
```

- 7. Which statement is false from the following?
- A. The exceptions that are checked at compilation-time by the Java Compiler are called
- B. 'Checked exception'.
- C. The exceptions that are checked by the JVM are called 'unchecked exception D. Both 1 and 2
- E. None of the above
- 8. Read the following code below. public interface AQuestion { public abstract void someMethod() throws Exception; }
 - A Class implementing this interface should
- A. Necessarily be an abstract class
- B. Should have the method public abstract void someMethod();
- C. Should have the method public void someMethod() which has to throw an exception which is a subclass of java.lang.Exception.
- D. Should have the method public void someMethod() which need not throw an Exception.

```
9. Given: public class Test
{
    public static void throwlt()
    {
        throw new Exception();
    }
    public static void main(String[] args)
```

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1.

2. 3.

4.

5.

6.

{

}

{

}

{



```
{
                  try
             {
                System.out.println("Hey There");
                       finally
             }
                System.out.println("in Finally");
                     }}
   What will happen when one tries to compile and run above code?
A. Compilation Fails
B. The program will print Hey There, then will print in finally.
C. The program will print Hey There, then will print that an Exception has occurred, and then will print in
   finally.
D. None of them
   10 Given:
      public class Foo {
      public static void main(String[] args) {
      try {
                                  iram Mantri
      return;
      } finally {
      System.out.println( "Finally" );
      } 8. } 9. }
   What is the result?
                                                             C. Null
                                                                                    D. None of the above
   A. Finally
                                      B. Blank
11. In exception handling mechanism, finally block is always executed, even if no exception occurred in the try
   block
   A. True
                            B. False
12. Exceptions can be caught or rethrown to a calling method.
   A. True
                            B. False
13. Given Following code: import java.io.*; class base
                          void disp()throws IOException
   class sub extends base
                          void disp()throws Exception
                          {
                          }
   public class myclass
```

public static void main(String args[])



```
{
                       }
}
A. compile error
B. neither compilation nor runtime error
C. no compilation error but exception at runtime.
14. What will happen to the following code?
public class Test
  public static void aMethod() throws Exception
  {
    try /* Line 5 */
      throw new Exception(); /* Line 7 */
    finally /* Line 9 */
      System.out.print("finally"); /* Line 11 */
    }
  }
  public static void main(String args[])
  {
        try
    {
       aMethod();
    catch (Exception e) /* Line 20 */
      System.out.print("exception");
    System.out.print("finished"); /* Line 24 */
  } }
A: finally
                                                B: exception finished
C: finally exception finished
                                                D: compilation fails
15. Which statement is true, if the following program is run by java test10? public class test10
{
                                    public static void main(String []args)
                  String []num={"one","two","three","four"};
                                                                               if(args.length==0)
                                                           System.out.println("Zero");
                          }
   else
System.out.println(num[args.length]+" arguments");
```

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```
}
  }
A. The program won't run because argument of main is not properly mentioned
B. The program will throw a NullPointerException
C. The program will display Zero when executed
D. The program will display 0 arguments when executed
  16. following program will not print "==" public class test12
                         Public static void main(String args{})
                                                String first="abc";
                                                String second=new String(first);
                                                If(first==second)
                                                           System.out.println("==");
                   Shriram N
  }
  A. True
  17. Assuming a method contains code which may raise an Exception (but not a RuntimeException), what is
  the correct way for a method to indicate that it expects the caller to handle that exception:
  A. throw Exception
                                      B. throws Exception
                                     D. Don't need to specify anything
  C. new Exception
  18. What is the result of executing the following code, using the parameters 4 and 0:
  public void divide(int a, int b)
       try
   {
  int c = a / b;
     catch (Exception e)
       System.out.print("Exception ");
     } finally
      System.out.println("Finally");
  A. Prints out: Exception Finally
                                                            B. Prints out: Finally
  C. Prints out: Exception
                                                            D. No output
  19. Given public class MyClass
  {
                                     public static void main(String args[])
  {
                                     String s1="hello";
```

String s2=new String("hello");

String s3="hello";

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```
System.out.println(s1==s2);
  System.out.println(s1==s3);
  System.out.println(s1.equals(s2));
  }
  }
  What will be the output?
  A. true, true, true
                                                    B. true, false, true
                                                   D. none of the above
  C. false, true, true
  20. specify which of the following is true?
A. protected members can not be accessed directly in the same package.
B. Protected member can be accessed with super class reference in different package.
C. Private member can be accessed by subclass using super keyword.
D. Constructors are not inherited.
  21Can you declare method local variable as final and can an abstract class may be final?
                                      B. Yes, no
  A. Yes, yes
                                                         C. No, yes
                                                                                            D. No, no
  22. Which of these methods of String class is used to obtain character at specified index?
                   B. charOn() C. charat() D. charAt()
      A. char()
  23. What will happen in the below code snipet: public class MyClass
                                      float f;
                                                  double d;
                          int i;
                                      boolean bl;
                                      public static void main(String args[])
                                                  System.out.println("int = "+i);
                                                  System.out.println("float = "+f);
                                                  System.out.println("double = "+d);
                                                  System.out.println("boolean = "+bl);
                                      }
  }
A. Int=0 float=0.0 double=0.0 boolean=false
B. Compilation error: cannot make static reference to the non-static field
C. Int=0 float=0.000 double=0.000 boolean=false
D. Compilation error: variable may not have been initialized
  24. What is legal?
  A. Try{}catch()
                                      B. Try{}catch()finally{}
                                      D. All of the above
  C. Try{}finally{}
  25. What will be returned?
  Try{return 1;}catch(){return 2;}finally{return 3;}
  A. 3
                          B.2
                                                   C.1
                                                               D. Compilation error
```

26. One of the following is unchecked exception

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A.	IOException
----	-------------

C. FileNotFoundException

36. Which of the following is not generally recoverable in the program

B. Exception

A. Error

 $B. \ Class Not Found Exception \\$

D. None of the above

C. Both a and b

27. Which one is checked	exception		
A. ClassCastException the above	B. MalformedURLException C	. ArrayIndexOutOfBound	dsException D. None of
28. In order to declare ex	ception which keyword is used		
A. Throw	B. Throws	C. Throwing	D. None of the Above
29. when an exception ha	ppens in the finally block it sho	uld be	
A. It should be thrown by	using throws.	B. We should catch it	
C. Depends on scenario		D. None of the above.	
30. Checked exceptions a	re automatically propagated to	the caller.	
A. True	B. False	A	
CL	WINGERS MA	antui A	
	s are automatically propagated		
A. True		B. False	
	ecked exception a <mark>s user de</mark> fin <mark>ed</mark>		
A. RuntimeException	B. Thr <mark>owable</mark>	C. Exception	D. Error
22 When werite one tru	and multiple catch the most spe	ocific catch should proce	do the most generic satch
A. True	and multiple catch the most spents. B. False	ecinc cateri should prece	de the most generic catci
A. Hue	B. I alse		
34.			
class exception_handling			
{			
public static void main(S1	ring argsO)		
. (5 5 ,		
try			
{			
System.out.print("Hello"	+ " " + 110) ;		
} finally			
{			
System.out.print("World"	");		
}			
}			
}			
A. Hello		B. World	
C. Compilation Error		D. First Exception the	n World

18

D. None of the above.

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FILE HANDLING

1. One of the following class provides "seek ()" method A: FileInputStream B: File C: RandomAccessFile D: FileReader 2. Given File f=new File("abc.txt"); FileInputStream fis=new FileInputStream(f); byte arr[]=new byte[100]; which statement will read content of "abc.txt" into arr. C: arr=f.read() A: arr=fis.read() B: f.read(arr) D: fis.read(arr) 3. Which one is wrong statement? A: FileInputStream fis=new FileInputStream(new BufferedInputStream("abc.txt")); B: DataOutputStream dis=new DataOutputStream(new FileOutputStream("xyz.txt")); C: FileOutputStream fos=new FileOutputStream(new File("aaa.txt")); D: SequenceInputStream ss=new SequenceInputStream(new FileInputStream("a.txt"),new FileInputStream("b.txt")); ram Mant 4. Given class base { int k; class sub extends base implements Serializable { int j; If we try to serialize instance of sub class, A: sub as well as base state will be serialized B: NotSerializableException C: only sub instance will be serialized D: compiler error "cannot serialized object having non-serializable parent" 5. Classes that do not implement interface will not have any of their State serialize or deserialized. A: List B: SingleThreadModel C: Serializable D: Comparable 6. Which one of the following is not from java.io.package A. String - correct ans B. StringReader D. File 7. What is the output? public static void main(String[] args) { // TODO Auto-generated method stub int x=0; int y=10; do { y--; ++x; }while(x<5);</pre> System.out.println(x+"\t"+y); output- 5 5 how does readObject() of ObjectInputStream

indicate end of file?

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A. returns null B. "" -1

C. throws java.io.EOFException - correct ans

D. closes automatically

What does the following code do?
 File f=new File("hello.test");

FileOutputStream fos=new FileOutputStream(f);

- A. Create a file "hello.test" if it does not exists in write mode.
- **B.** Open a file named "hello.test", so that u can write to it and read from it but does not create the file if it is not existing yet.
- C. Open a file named "hello.test", so that u can write to it and read from it.
- **D.** Create an object that you can now use to create and open the file named "hello.test" and write to and read from the file.

How can u replace the comment at the end of main with code that will write integers from 0 to 9? A. DataOutputStream dos=new DataOutputStream(fos);

```
a. for(int i=0;i<=9;i++)
 b. {

 i. dos.write(i);

c. }
 B. for(int i=0;i<=9;i++)
a. {
i. f.writeInf(i);
b. }
C. for(int i=0;i<=9;i++)
i.
   {
    fos.writeInt(i);
i.
 D. DataOutputStream dos=new DataOutputStream(fos);
 a. for(int i=0;i<=9;i++)
                              dos.writeInt(i);
```

- 10. What is the permanent effect on the file system of writing data to a new FileWriter("report"), given the file report already exists?
- A. The data is appended to the file
- B. The file is replaced with a new file
- C. An exception is raised as the file already exists

}

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D. The data is written to random locations within the file

11. Which one is wrong statement?
A: FileInputStream fis=new FileInputStream("abc.txt");
B: DataOutputStream dis=new DataOutputStream(new FileOutputStream("xyz.txt"));
C: FileOutputStream fos=new FileOutputStream(new File("aaa.txt"));
D: FileOutputStream fos=new FileOutputStream(new ObjectOutputStream("aaa.txt"));
12. Which statement is correct?
A: Externalizable is a base interface of Serializable
B: String class is final hence cannot be serialized
C: When a class implements Serializable and it is deserialized using readObject(), constructor is never
invoked.
D: Externalizable is a marker interface.
13. Given
class base
int k; Shriram Mantri
int k;
}
class sub implements Serializable
{
base b=new base();
int j;
}
If we try to serialize instance of sub class,
A: sub as well as base state will be serialized
B: NotSerializableException
C: only sub instance will be serialized
D: compiler error "cannot serialized object having non-serializable parent"
14. Which class is not serialized
A: java.lang.Thread B: java.lang.Applet
C: java.lang.Class D: All of the above
15 is a communication path bet'n source and destination
A. File B. stream C. directory D. none of the above
16. InputStream and OutputStream are concrete classes
A. True B. false
17. if u want to write primitive types u need to use
A. DataoutputStream B. FileOutputStream
C. OutputStream D. ObjectOutputStream
18 class allows us to write and read both.
A. FileReaderWriter B. RandomAccessFile



C. BufferedWriter	I	D. none of the above	
19. Serializable extends E	externalizable		
A. True	B. false		
20. Serializable is marker	interface.		
A. True	B. false		
21. In case of Serializable	when u deserialize an	object constructor does not get invoked.	
A. True	B. false		
22. While deserialization	if serialversionUID doe	es not match we get	
A. IllegalClassException	!	B. InvalidClassException	
C. NullPointerException	J	D. none of the above	
23. Which is correct			
A. FileOutputStream fos=	new FileOutputStrear	n(object to be added);	=new
ObjectOutputStream("filename"); oos.write(
B. FileOutputStream fos=	=new FileOutputStrear	n("filename");	
·		ream(object to be added); oos.writeObject();	
-		m("filename <mark>"); Obje</mark> ctOutputStream oos=new	
ObjectOutputStream(fos); oos.writeObject(object to be added);	
D. none of the above			
24. File class is used to c	reate new file		
A. True	B. false		
25. in case of Externalization is called.	ıble when u deserialize	e an object first readExternal() is called and then	constructor
A. True	B. false		
26. In order to serialize i		must be Serializable	
A. True	B. false		
27. If inner class implem	ents Externalizable we B. false	e don't get any problem while deserialization	A. True
28. If static nested class A. True	implements Externaliz B. false	able we don't get any problem while deserializat	ion
29. Java.lang.Object clas	s implements Serializa	ble	
A. True	B. false		
30. transient variables m A. inheritance B. Associa		D. None of the above	

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A.

31. Which of these classes are	used by character streams for	or input and output operations?
A. InputStream B. Writer	C. ReadStream	D. InputOutputStream
32. FileWriter fw =new FileWri A. Text based io B. bin	iter("a.xyz"); in this code, we ary based 10 C. both a an	
	GENERIC	S
•	ompiler removes all the infor c-Erasure C. Type-Erasure	mation about generics. This is known as D.none of the above
2. <p extends="" q=""> here Q can be</p>	e either class or interface	
A. True	B. false	
3. We can't have generic method	od in non-generic class	
A. True	B. false	A
4. Polymorphism applies to bas A. True	se type as well as generic type B. false	antri
5. Mixing generic and non-gene	erics can be r <mark>isky</mark>	
A. True	B. false	
6. If the base class reference reA. IllegalArrayExceptionC. NullPointerException7. In case of <? Extends> wA. True	B. ArrayStore D. none of th	<mark>eExce</mark> ption
8. In case of super we of a. True	can add B.false	
9. List Super Thread mylist= A. Yes	new ArrayList <object>() wi B. no</object>	ll work
10. List Super Dog mylist=n A. Yes	ew ArrayList <animal>() myl B. no</animal>	list.add(new Cat()); will work
11. List allows u to add A. True	B. false	
12. List <object> allows u to add A. True</object>	d B. false	

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INHERITANCE

```
1. What is the output of following code.
class a
{
  static
           System.out.println(" static a");
   }
}
class b extends a
  static
   {
           System.out.println(" static b");
}
class c extends b
                    Shriram Mantri
{
   static
   {
            System.out.println(" static c");
}
public class myclass
   static
   {
       System.out.println(" static myclass");
   public static void main(String args[])
            new c();
            System.out.println("in main");
}
A: in main, static a, static b, static c, static myclass
B: static myclass, static a, static b, static c, in main
C: static myclass, in main ,static a,static b,static c
D: static a, static b, static c, static myclass, in main
2. What will happen to the following code?
class base
{
public final void disp ()
System.out.println ("in disp");
```



```
}
}
public class sub extends base
public static void main (String argv [] )
base b = new base(); b.disp
();
}
}
A: runtime error
B: compiler error "final method must be inside final class"
C: compiler error "a class having final method can not be inherited"
D: neither compilation nor runtime error
3. what will be the output? class
base
                      hriram Mantri
{
  int i;
  {
           add(1);
  void add(int v)
  {
                      i+=v;
   }
   void
print()
  {
           System.out.println(i);
  }
class sub extends base
{
  sub()
  {
           add(2);
  void add(int v)
           i+=v*2;
}
public class test6
  static void disp(base b)
           b.add(8);
           b.print();
```



```
}
  public static void main(String args[])
           disp(new sub());
   }
}
A: 9
                        B: 18
                                                          C: 22
                                                                                             D: 21
4. What is the output of following code? interface emp
{
}
public class Trial implements emp
   public static void main(String args[])
           Trial t=new Trial();
           if(t instanceof Trial)
                       System.out.println("Trial");
           if(t instanceof emp)
                       System.out.println("emp");
           if(t instance of Object)
                       System.out.println("Object");
  }
}
A: Trial, emp, Object
B: Trial, emp
C: compilation error "can not use instanceof with interface"
D: Trial, Object
5. what is the output of the following code?
class a
{
   static
           System.out.println("static a");
   }
}
class b extends a
{
   static
   {
```



```
System.out.println("static b");
   }
}
class c extends b
  static
   {
           System.out.println("static c");
public class MyClass
   static
   {
            System.out.println("static MyClass");
   public static void main(String args[])
                           riram Mantri
   new
c();
  System.out.println("in main");
}
A. in main, static a, static b, static c, static MyClass
B. static MyClass, static a, static b, static c, in main
C. static MyClass, in main, static a, static b, static c
D. static a, static b, static c, static MyClass, in main
6. what will happen to the following code? class base
   public final void disp()
            System.out.println("disp");
}
public class sub extends base
   public static void main(String args[])
           base b=new base();
                                               b.disp();
}
A. runtime error
B. compiler error: final method must there in final class
C. compiler error: a class having final method can not be instantiated.
D. Neither compile time nor runtime error.
```

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7. Why multiple inheritance is not available in java?

A. It leads to confusion for a Java program

class sub extends base

- B. The programmer can achieve multiple inheritance by using interface
- **C.** The programmer can achieve multiple inheritance by repeatedly using single inheritance the above

D.All of

```
8. what is the output? class base
}
class sub1 extends base
{
}
class sub2 extends sub1
{
}
class sub3 extends sub2
{
                  Shriram Mantri
  public static void main(String args[])
           sub1 s=new sub2();
                                            base b=s;
           if(b instanceof base)
                     System.out.println("base");
           if(b instanceof sub1)
                     System.out.println("sub1");
           if(b instanceof sub2)
                     System.out.println("sub2");
           if(b instanceof sub3)
           {
                     System.out.println("sub3");
           }
  }
  A. base
                      B. sub3
                                            C. sub1
                                                                 D. sub2
9. Given the following code, what can be said about the statement s=(sub)b? class base
{
```

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```
{
}
public class test12
   public static void main(String args[])
 base b=new base(); sub s=new sub();
           s=(sub)b;
  }
}
A. legal at compile time but illegal at runtime
B. illegal at compile time
C. legal at compile and runtime ,but (sub) cast is not needed D. legal at compile and runtime ,but (sub)
  cast is strictly needed.
10. What will happen when you attempt to compile or run this code? class Base
public final void amethod ()
                                 ram Mani
system.out.println ("amethod");
}
public class Fin extends Base
public static void main (String argv [] )
Base b = new Base(); b.amethod
();
}
A. Compile time error indicating that a class with any final methods must be declared final itself
B. Compile time error indicating that you inherit from a class with final methods.
C. Run time error indicating that Base is not defined as final.
D. Success in compilation and output of "amethod" at run time
11. class Foo
{
  int num;
   Bar comp=new Bar();
}
class Bar
{
```

boolean flag;

double d;

class Baz extends Foo

Bar thing=new Bar();

}



```
}
A. A Bar is a Baz
                       B. A Foo has a Bar
                                               C. A Baz is a Foo
                                                                      D. A Foo is a Baz
E. A Baz has a Bar.
12. What will happen to the following code? interface X
{
  static void disp()
           System.out.println("in disp of X");
}
public class Trial implements X
   public static void main(String args[])
   {
                                         mt.disp(); antri
   }
}
A. Compilation error "disp not available with Trial"
B. Compilation error "static method can not be defined inside an interface"
C. Compilation error "Trial class must define disp as it is there inside parent interface"
                                                                                            D. Output "in
  disp of X"
              interface emp //
13. Given
functional interface
{
   String wish(String name);
}
Lambda expression in order to use above interface would be:
A. emp ref2=(String name)->{ return "Welcome to our site\t"+name;};
B. emp ref2=(String name){ return "Welcome to our site\t"+name;};
C. Both A and B
D. None of the above
   14. How restrictive is the default accessibility compared to public, protected and private accessibility? a.
Less
                       restrictive than public.
A. More restrictive than public, but less restrictive than protected
B. More restrictive than private
C. More restrictive than protected, but less restrictive than private
D. Less restrictive than protected from within a package, and more restrictive than protected from outside
  a package
15. What will be the output of the following code? public class VerySmart
public static void main(String[] args)
```



```
{
String message;
System.out.println("message length is: " + message.length());
}
}
  A. /0
                       B. 0
                                               C. compile time error
                                                                                  D. run time error
16. The programmer must explicitly create the System.in and System.out objects.
A. True
                                   B. False
17. A method within a class is only accessible by classes that are defined within the same package as the
   class of the method. How can such a restriction be enforced?
A. Declare the method with the keyword "public"
B. Declare the method with the keyword "protected"
   C. Do not declare the method with any modifiers.
D. Declare the method with the keyword "private"
E. Declare the method with the keyword "package"
18. A final class cannot have any abstract methods.
 A. True
                                                           B. False
19. String class is
  A. final
                                               C. static
                                                                      D. transient
                       B. abstract
20. what is the result of following code?
                                                                                      class base
   int i;
   base()
   {
           add(1);
  void add(int v)
   {
                       i+=v;
  void print()
           System.out.println(i);
}
class sub extends base
{
   sub()
   {
           System.out.println("in sub def const");
           super.add(2);
   void add(int v)
```



```
{
              i+=v*2;
      }
  }
  public class test11
     public static void main(String args[])
               base b;
                                      b=new sub();
                                                                          b.print();
      }
  }
      A. 4
               B. 3
                                      C. Error: super has to be on first line of constructor
                                                                                                  D. 2
  21.
              What is garbage collection process in java?
  A. The operating system periodically deletes all the java files available on the system.
  B. Unused package in program is automatically deleted.
  C. When all references to an object are gone, memory used by that object is automatically reclaimed.
      D. The JVM checks the output of any java program and deletes anything that does not make sense.
  22.
              Given the following code, public class Test
  {
   String str="hello";
   }
              Test t=new Test();
      1.
     2.
              System.out.println(t.str);
     3.
              t=null;
              System.out.println(t.str);
      4.
              System.out.println("done"); What will happen to the above code?
                                                  B: "NullPointerException" at Line 4
   A: "NullPointerException" at Line 3
  C: Compilation error at Line 4
                                                  D: Successful out
  23.
              Given the following code, public class Test
  {
   String str="hello";
  }
     6.
              Test t=new Test();
     7.
              System.out.println(t.str);
              t.str=null;
     8.
     9.
              t=null;
              System.out.println("done");
At which line the object created at 1 will be marked for garbage collection?
   A: Line 3
                                                  C: Can't say exactly when
                                                                                      D: both Line3 and Line4
                          B: Line 4
  24.
              What is the output?
  public class Trial
  {
```

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```
int num=10;
         void change(Trial ref)
         {
                    ref.num=20;
ref=new Trial();
           ref.num=30;
                                 ref=null;
         }
         public static void main(String args[])
          Trial t=new Trial(); t.change(t);
                     System.out.println(t.num);
         }
         }
         A: 30
                                                         C: NullPointerException
                                 B: 20
                                                                                                         D: 10
         25. class Bar { }
         class Test
           Bar doBar()
                                                 return b; /* Line 7 */
             Bar b = new Bar(); /* Line 6 */
           public static void main (String args[])
             Test t = new Test(); /* Line 11 */
             Bar newBar = t.doBar(); /* Line 12 */
                                                         System.out.println("newBar");
                                                                                              newBar = new Bar(); /*
         Line 14 */
             System.out.println("finishing"); /* Line 15 */
           } }
         At what point is the Bar object, created on line 6, eligible for garbage collection?
         A. after line 12
                                                         B. after line 14
         C. after line 7, when doBar() completes
                                                         D. after line 15, when main() completes
         26. What is the output for the following program?
         class A
         {
            static
            {
                     System.out.println("in A static block");
         }
         public class Trial
            A ob=new A();
            public static void main(String args[])
                     System.out.println("in main");
            }
```

static

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```
{
            System.out.println("in Trial static block");
}
A: in A's static block, in Trial static block, in main B:
in Trial static block, in main
C: in A's static block, ,in main ,in Trial static block
D: in Trial static block, in A's static block, in main
27. Given following code, what will happen to it?
String str1="hello";
 String str2="hel"; String str3=str2+"lo";
            if(str1==str3)
            {
                        System.out.println("str1 and str3 are==");
            }
            {
                        System.out.println("str1 and str3 are not ==");
            }
            if(str1.equals(str3))
                        System.out.println("str1 and str3 are equals");
            }
            else
                        System.out.println("str1 and str3 are not equals");
A: str1 and str3 are ==, str1 and str3 are equals
B: str1 and str3 are not ==, str1 and str3 are equals
C: str1 and str3 are ==, str1 and str3 are not equals
D: compilation error
28. Java supports
   A. single level inheritance
                                                 B. multi-level inheritance
   C. hierarchical inheritance
                                                 D. all of the above
29 Super must be on first line if we want to invoke base class constructor.
A. True
                                     B. False
30. Super need not be on first line if we want to invoke base class method.
A. True
                                                 B. False
```

31 <default> is more accessible than protected.

34

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A. True B. False 32. Final keyword can be applied to A. Instance member B. Class variable C. Local variable D. All of the above 33. In java we can apply static modifier for local variable. A. True B. False 34. In order to make a class abstract: A. Apply abstract keyword to class B. Declare abstract method inside class C. Both a and b D. None of the above 35. In order to check "is-a" relationship, we use following operator C. Is relationship A. Is-a B. Instanceof D. None of the above 36. If we try to cast the classes out of hierarchy we get B. OutOfHierarchyException A. BadCastException C. ClassCastException D. None of the above 37. At the time of overriding function, if we change the argument: B. It gives runtime error A. It gives compiler error C. Compiler automatically removes the argument D. It becomes overloading. 38. Will following code work? Class MyClass extends String{} A. Yes B. No 39. Which of the following statements are true? A. An abstract class may not have any final methods. B. A final class may not have any abstract methods. C. Every class must have a main method. D. The mandatory elements in a file are: package, import and class. E. A Java identifier must begin with a letter, \$, ! or . 40. super call should always be A. main function C. in the subclass. D.None of the above B.in the super class 41. extends keyword can be used with A. Interface D. None of the above B. class C. both 42. final keyword for class in java means D.none of the above A. no overriding B. no overloading C. Both a & b 43. interfaces in java is for A. contract B. abstraction C. both a and b D. None of the above 45. The job that is done by the thread is decided by

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C. main method

B. start method

A. run method

subclasses.



D. None of the above

46. overriding uses			
A. variables	B. functions	C. classes	D. None of the above
47. class			
A			
{			
int i;			
void display()			
{			
System.out.println(i);			
}			
}			
class B extends A { int	j;		
void display() { System	.out.println(j));		
}	77 0	7 /	. A
} class inheritance_dem	hrira	$m M \alpha$	ntriA
		IL IVILLE	
public static void main	(Stri111g argsO)		
{			
B obj = new B();			
obj.i=1; obj.j=2;			
obj.display();			
}			
} Outsut of this sussesses			
Output of this program	V V		D. Commilation Funci
A.O	B. 1	C. 2	D. Compilation Error
48. interface Z extend	ls Δ here Δ is		
A. class	B. function	C. interface	D. none of the above.
A. Class	b. ranction	c. meerace	b. Home of the above.
49. How can we ensure	e that a class will no	t be inherited from?	
A. Delare it as constar	nt	B. D	eclare it as final
C. Declare it as static		D. N	Ione of the above
50. superclass ref =ne		= =	-
A. Non final functions	•		inal functions of super class
C. Exclusive functions	of sub class	D. N	lone of the above.
Q.51 When a program	class implements ar	n interface.it must p	rovide behavio
A.Two methods define	· ·		nly certain methods in an interface
C. Any methods in a cl			Ill methods defined in that interface.
,			
52. Which modifier we	ould be used to limi	t the methods visibil	ity to only the ot the current oackaae and al



A. public		B. private	C. protected	1	D. default
53. The va	riables in ar	interface can have wh	hich modifiers?	?	
A. Public		B. Static	(C. Final	D. All of the above
54. To com	pare wheth	ner two references poi	nt to the same	object we use	
A. == oper	ator	B. equals function	C. we can u	use both	D. none of the above.
55. non fin	al functions	s have to be			
A. overrido	len	B. may be overridde	n (C. ABoth a and b	D. None of the above
class A	s the output	t of this program?			
{	Public int i Private int				
} Class B (extends A	hriran	n M	antri	
· ·	Void displa				
	{	super.j = super.i + 1;			
		System.out.println(su	<mark>upper</mark> .i + " " + s	s <mark>upper.j);</mark>	
}	}				
,	class inher	ritance			
	{	public stati <mark>c void ma</mark> i	in (String args[1)	
		{	(** 8 * 8 * 1.		
	obj.	B obj = new B(); i=1·			
obj.j=2;	-	·,			
		obj.displa	ay();		
	}	}			
A. 22	,	B. 33	C. Runtime	Error	D. Compilation Error
57. A class	can be decl	ared as if yo	u do not want	the class to be subclas	sed. Using the
A		e can abstract a class i		· · · · · · · · · · · · · · · · · · ·	D. Cool and add
A. protecte	ed, interface	B. final, i	nterface	C. public, friend	D. final, protected
58. Select t	the correct	statement			
		ng is called compiled ti		hism	
B. Method C. only [B]		g is called runtime pol	yınorpnism		
=	and [B] are	correct			



```
59. What is the output of the below program?
public class A
{
public void foo()
System.out.println("foo");
public void foo(int a)
System.out.println("foo(int)");
}
}
public class B extends A
public void foo()
{
foo(5);
public void foo(int a)
System.out.println("fooB(int)");
public class test
Public static void main(String[] args)
A a = new B() ; a.foo()
}
A. Program will not compile
                                 B. fooB(int)
                                                        C. foo(int)
                                                                              D. foo
60. What is the output of the below program?
Public class A
{
  Public int a1 = 5;
  Public int a2
  Public static int a3 = 7;
  Public static int a4 = 8;
  Public void foo()
           System.out.println(a1);
  Public static void foo(int a)
           System.out.println(a2);
```



```
}
Public class B extend A
{
   Public void foo()
            System.out.println(a3);
            Foo(5);
            System.out.println(a2);
   }
A. 5
B. 7
   6
   8
C. 6
D. Program will not compile
61. What is the output of the below program?
Public class A
{
   Public int a1 = 5;
   Public int a2 = 6;
   Public static in b1 = 7;
   Public static int b2 = 8;
   Public void foo()
            System.out.println(getClass().getName());
   Public void foo(int a)
            System.out.println(getClass().getName());
Public class B extend A
   Public void foo(int a, int b)
   {
            foo(a);
            System.out.println(getClass().getName());
   }
Public class Test
   Public static void main(String[] args)
           A a = newB();
   a.foo();
```

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```
}
A. program will not compile
                                                                     C. B
                                                                                             D. AB
                                              B. A
62. Which of the following statements are true?
i. An instance of an abstract cannot be created ii .An
abstract class must have at least one abstract method iii.
An abstract class cannot implement an interface
A. i
                       B.i,ii
                                                          C. i , ii , iii
                                                                                 D. ii
63. What will be the output of the following program?
Public class A
{
   Public A()
   this(5);
           System.out.println("A()");
   Public A(int a)
                                      am Mantri
           System.out.println("A(int)");
}
Public class B
   Pulic B()
           System.out.println("B()");
           Super();
   }
}
Public class Test
   Public static void main(String[] args)
           A a1 = new B();
}
A. program will not compile
                                  B. B() A(int) A()
                                                          C. B()
                                                                     D. B() A()
                                                                                  A(int)
```

JAVA FX

- 1. In JavaFX following class is acting as a container for all the contents
- **A. Scene** B. Stage
- C. LayoutPane
- D.None of the above
- 2. In order to start every JavaFX application you must invoke following method
- **A.** Init()
- B. Start()
- C. Launch()
- D. None of the above

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1. One of the following method is not executed by the programmer while writing multithreaded



MULTITHREADING

applications. A: start B: sleep C: join D: run 2. Given public class Trial extends Thread { public void run()throws NullPointerException System.out.println("hello"); public static void main(String args[]) System.out.println("done"); new Trial().start(); } } ram Mantri A: NullPointerException during runtime B: Compilation error "overridden method does not throw NullPointerException" C: output "done" "hello" D: it will print "done" and then throw "NullPointerException" 3. Which of the following is the wrong statement A: you cannot notify a particular thread B: synchronized keyword can be applied to static methods C: wait, notify methods can be called only from synchronized methods or block **D**: InterruptedException is unchecked exception. interface should be implemented by any class whose instances are intended to be executed by a thread. B: Comparable C: Collection A: Serializable D: Runnable 5. Consider the following: class X implements Runnable { public static void main(String args[]) /* Missing code? */ public void run() { } Which of the following lines of code is suitable to start a thread? A: Thread t= new Thread(X); B: Thread t= new Thread(X); t.start(); C: X run = new X(); Thread t= new Thread(run); t.start(); D: Thread t= new Thread(); x.run();

6. Which of the following statements is true?

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A: A static method cannot be synchronized

B: Non-synchronized method can become synchronized if it's being called from a synchronized method

C: When a thread call wait() from a synchronized method, it releases the lock

D: Primitive variables can be protected from concurrent access using synchronized block.

7. Given public class TestOne { public static void main (String[] Thread.sleep(3000); System.out.printIn("sleep"); } }	args) {		
A: No error, prints sleep	B: Compilation error		
C: Runtime Error	D: No error & no outp	out	
8. Which of the following are notes	C: yield s incorrect	D: stop	
A. u invoke run()	B. u i <mark>nvoke sta</mark> rt	"	
C. u implement Runnable	D. u exter	nd Thread	
10. Which type of instanceof do Thread t=new Thread(target A. targetObject instanceof Thre C. targetObject instanceof O 11 are utilized to o A. Asynchronized methods	cObject); ead B. target bject control the access to an o B. serializ	Object instanceof App D. targetObject ins Object especially in musted methods	olet tanceof Runnable
C. synchronized methods	D. both a	and c	
12 means each n threads at the same time.	nethod in multithreaded	environment doesn't	access data by multiple
A. Thread detach	B. thread isolation	C. thread safety	D. thread lock
 13. Which of the following start A. System class B. main 14. Which two can be used to c 	method C. static k		P. D. none of these
A. Extend java.lang.Thread andB. Extend java.lang.Runnable aC. Implement java.lang.threadD. Implement java.lang.Runnab	nd override the start met and implement the run m	hod. nethod.	
15. What is the use of the synch A. Allows two process to run in		cate with each other	

B. Ensures only one thread at a time may access a method or object

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C. Ensures that two or more processes will start and end at the same time D. Ensures that two or more Threads will start and end at the same time

```
16. What will happen when you attempt to compile and run the following code?
   public class Bground extends Thread
   {
     public static void main(String argv[])
        Bground b = new Bground(); b.run();
     public void start()
      {
         for (int i = 0; i < 10; i++)
           System.out.println("Value of i = " + i);
      }
   A. A compile time error indicating that no run method is defined for the Thread class
   B. A run time error indicating that no run method is defined for the Thread class
   C. Clean compile and at run time the values 0 to 9 are printed out
   D. Clean compile but no output at runtime
   17. Given the following,
   1. class MyThread extends Thread {
   2.
 3. public static void main(String [] args) {
 4. MyThread t = new MyThread();
 5. t.start();
 6. System.out.print("one. "); 7. t.start();
 8. System.out.print("two. ");
 9. }
 10.
11. public void run() {
12. System.out.print("Thread");
13. }
14. }
   What is the result of this code?
A. Compilation fails
B. An exception occurs at runtime. java.lang.IllegalThreadStateException
C. Thread one. Thread two.
D. The output cannot be determined
   18. What is the o/p of the following program?
   1. class MyThread extends Thread {
   2.
   public static void main(String [] args) {
```

MyThread t = new MyThread();



	new Thread(t); 6. x	start(); 7. }		
8. 9. pı	ublic void run() (
•	ublic void run() { or(int i=0;i<3;++i) {			
	/stem.out.print(i + "	").		
-	13. }	,,		
14. }				
A. Compilatio	on fails.	B. 123	C. 0123	D.012
19. In case of	class lock, non-stati	c synchronized	methods come into p	icture.
A. False		В.	. true	
20. Sleep rele	ases the lock where	as wait does no	ot.	
A. True		В	B. False	
	ne effect of issuing a	.,	•	
=	and the same of th		hat object then it has n	- 4
-		H/* M: H - H/ H/ H/	until another object s	ends a notify() or notifyAll() method
-	ion will be raised		tomatically synchronic	zed with any other objects using the
receiving of	V -	van() will be au	tomatically synchronic	zed with any other objects using the
22. One of th	e following method	has to b <mark>e invok</mark>	ed by the programme	r in order to bring thread from born
to runnab			/ /	
A: start	B: sleep	C	: join	D: run
23. Which of	the following is the	cor <mark>rect state</mark> me	ent	
=	t notify a particular			
	ed keyword can be a			
C: wait,notify all of the abo		led only from s	yn <mark>chronize</mark> d methods	or block D :
24.6.1.1.1				
	correct statement: intrinsic lock, when	exception is rai	ised in a synchronized	d code, lock is automatically
	Reentrant lock, whe	n exception is ra	aised lock is automatio	cally released.
C. Both A and		·		,
D. None of th	ese.			
25. Threads a	re lightweight as co	mpare to proce	sses	
A. True		В	3. false	
26. The meth	od used to register t	hread with JVN	ለ scheduler	
A. urn	B. registe	r C .	. start	D. none of the above
27. By defaul	t the priority of thre	ad is		
A. Minimum	B. maximu	ım C.	. normal	D. none of the above



```
28. Sleep releases the lock wait does not
A. True
                                              B. false
29. One of the following methods programmer never invokes in case of multi-threading application
                                                                                 D. notify
   A. Run
                                   B. start
                                                          C. wait
30. We can invoke wait, notify or notify all from non-synchronized methods
A. True
                                               B. false
   31. What will happen?
public class MyThread extends Thread
           @Override
           public void start()
           public static void main(String args[])
           MyThread m1=new MyThread();
                                                          m1.run();
A. Compile time error
                                   B. Exception during runtime
                                   D. Program will behave differently on different platforms
C. No error no output
32. Wait, notify and notifyAll methods are
                                                              D. none of the above
A. Abstract
                  B. static
                                        C. final
33. All the blocking methods i.e. sleep, wait and join can throw
A. IllegalMonitorStateException
                                               B. InterruptedException
   C. BlockingException
                                                          D. none of the above
34. What will happen?
class MyTarget implements Runnable
{
           public void run()
                       System.out.println("MyTarget run");
           }
}
public class MyApp
           public static void main(String args[])
          MyTarget m=new MyTarget();
                                                      Thread t1=new Thread();
   t1.start();
```



```
}
}
A. Output "MyTarget run"
                                             B. No output
     C. Compilation error
                                             D. IllegalMonitorException during runtime
35. What will happen?
class MyTarget implements Runnable
{
           public void run()
                      System.out.println("MyTarget run");
           }
}
public class MyApp
           public static void main(String args[])
                      MyTarget m=new MyTarget();
           Thread t1=new Thread();
                      t1.start(m);
    }
}
A. Output "MyTarget run"
                                             B. No output
C. Compilation error
                                             D. IllegalMonitorException during runtime
36. What will happen?
class MyTarget implements Runnable
{
           public void run()
                      System.out.println("MyTarget run");
public class MyApp
           public static void main(String args[])
  MyTarget m=new MyTarget(); Thread t1=new Thread(m); t1.start();
}
   A. Output "MyTarget run"
                                             B. No output
   C. Compilation error
                                             D. IllegalMonitorException during runtime
37. A class which contains non-static synchronized methods or blocks is called as
          A. Singleton B. Synchronized
                                              C. Thread-Safe
                                                                    D. none of the above
38. _____ method makes caller thread wait till this thread die.
A. Wait
                       B. sleep
                                             C. yield
                                                                    D. join
```

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C.main method



D.None of the above

39. The job that is done by the thread is decided by

B.start method

A. run method

40. in a function, the code Thread.Sleep(1000); is showing a compilation error, because of Interrupted Exception, not being handled, that means Interrupted Exception is A. Runtime Exception **B. Non Runtime Exception** C. Could be a or b D. None of the above. 41. class A extends Thread { private int i; public void run() { i= 1; } public static void main(String[] args) am Mantri A = new A(); a.start();System.out.print(a.i); }} What are the possible results of attempting to compile and run the program B. Prints: 0 A. Prints nothing C. Prints: 1 D. Cant say. 39.class multithreaded progr.aming public static void main(String argsO) Thread t = Thread.currentThread(); System.out.println(t); } } This will call the toString method of A. Thread class

OOPS

C. String class

B. Object class

```
1. What is the output?
public class Trial
{
  int num=10;
  void change(Trial ref)
   ref.num=20;
            ref=null;
   }
```

D. none of the above

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```
public static void main(String args[])
            Trial t=new Trial();
                                               t.change(t);
            System.out.println(t.num);
  }
}
A: 20
                        B: 10
                                               C: NullPointerException
                                                                                   D: None of the above
2. Which of the following modifiers can be applied to Top Level classes?
                        B: default
                                               C: protected
A: public
                                                                       D: both A and B
3. Which is true about an anonymous inner class?
A. It can extend exactly one class and implement exactly one interface.
B. It can extend exactly one class and can implement multiple interfaces.
C. It can extend exactly one class or implement exactly one interface.
D. It can implement multiple interfaces regardless of whether it also extends a class.
4. Local inner class cannot access
A: outer class member
B: its own static member
C: local members of the method in which it is defined
D: static member of outer class
5. Given public static void main(String args[])
            Integer i;
                                   if(i==65)
            {
                       System.out.println("65");
            else if(i==0)
            {
                       System.out.println("0");
          }
          else
            {
                       System.out.println("garbage");
}
                                                           C: Compilation error D: output "garbage"
A: output "0"
                       B: NullPointerException
6. Given public class Trial (static Double d;
public static void main(String args[])
   {
            if(d==0)
                       System.out.println("0");
```

else

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```
{
                        System.out.println("garbage");
            }
   }
}
A: it will fail at runtime
                                    B: output 0
C: output garbage
                                    D: compiletime error
7. Which statement is wrong?
A: Externalizable is child of Serializable
B: String class is final hence cannot be serialized
C: When a class implements Serializable and it is deserialized using readObject(), constructor is never
invoked.
D: all the wrapper classes they implement Serializable
8. Finalize method is a method of the class
                                                                       D: None of the above
A: String
                        B: Exception
                                                C: Object
9. Which of the following can be referenced by this variable?
A: The instance variables of a class only
B: The methods of a class only
C: The instance variables and methods of a class
D: The class variable
10. Which statement is true about a static nested class?
A: You must have a reference to an instance of the enclosing class in order to instantiate it.
B: It does not have access to non-static members of the enclosing class.
C: its variables and methods must be static.
D: must extend the enclosing class.
11. Which of the following methods cause the string object referenced by s to be changed?
                                                           C: s.replace()
                                                                                   D: None of the above
   A: s.concat()
                        B: s.touppercase()
12. Given
public static void rnain(String [] args)
PassA p = new PassA(); p.start();
void start()
long [] a1 = {3,4,5}; long [] a2 = fix(a1);
System.out.print(a1 [0] + a1 [1] + a1 [2] + "");
```

System.out.println(a2[0] + a2[1] + a2[2]);

}

long [] fix(long [] a3)



```
a3[1] = 7'; return a3;
}
A: 1215
                       B: 1515
                                               C: 3 4 5 3 7 5
                                                                       D: 375375
13. What is the result of the following code? import java.util.*; enum
Animals
{
DOG("woof"), CAT("meow"), FISH("burble");
String sound;
Animals(String s) { sound = s; }
}
public class test11 { static Animals a; public static void main(String [] args) {
System.out.println(a.DOG.sound + " " + a.FISH.sound);
}
}
A: Multiple compilation errors
B: woof burble
B: woot burble
C: Compilation fails due to an error on line 3
14. Inner class gets access to
A: outer class variables
B: outer class variables only if we created outer class object in inner class.
C: inner class variables only D: none of the above.
15. Which of the following is not a wrapper class?
A: String
                       B: Integer
                                               C: Boolean
                                                                      D: Character
16. What is the output?
class A
{
  int i,j;
   A()
   {
           i=1;j=2;
   }
}
public class Abc {
   public static void main(String[] args) {
           // TODO Auto-generated method stub
           A obj1=new A();
           A obj2=new A();
           System.out.println(obj1.equals(obj2));
   }
}
   A. true
                       B. false
                                               C. compiler error
                                                                                  D. runtime error
```

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17. Which of the following is				
		C Al I	1 1 2 - 1	D. Line
A. Thread B. Co	llection	C. Abst	ractList	D. List
18. To provide access to mer is used?	mbers of the clas	ss to another class in	different package wh	ich access specifier
A. Public B. pr	otected	C. private	D. no modifier	
19. Which of these methods	is rounding fund	ction of Math class?		
A. max() B. mi	n()	C. abs()	D. all of the abov	re
20. In java System.out is an o	object of type			
A. InputStream B. Pr	intStream	C. OutputStream	D. BufferedInpu	tStream
21. Which of the following states A. It can extend exactly one B. It can extend exactly one C. It can extend exactly one D. It can implement multiple	class and implen class and can im class or implem	nent exactly one interplement multiple interplement multiple interplement exactly one interplement and less of whether it a	rface erfaces face	rts?
22. Which string instance me a="BUTTERfly" and b='	ethod would retu		d liked this: a.metho	d(b) where
a) equalsIgnoreCase()	b) toUpp	erCase() c) toLo	werCase() d) ed	quals()
 23. Which of the following is A. Determining the state C. Determining duplicate 24. What is the difference be A. super() constructor is invoked constructor of the sub class. B. this() constructor is invoked constructor of the sub class. C. this() constructor is invoked constructor of the sub class. D. this() constructor is invoked constructor of the sub class. 	of an object classes etween this() and oked within a more section of the control	B. Determent B. De	super() constructor is	used within the s invoked within the invoked outside the
25. What is the output of the { public static void main(StringBuffer sb1=new StringBuffer sb2=new StringBuffer sb2=new String ss1="Anurag"; System out println(sh1==	ring args[]) ingBuffer("Anura ingBuffer("Anura	ag");		

System.out.println(sb1.equals(sb2));
System.out.println(sb1.equals(ss1));



```
System.out.println("Poddar".substring(3));
}
A. False, true, true, dar
                                              B. False, true, false, ddar
C. Compiler error
                                              D. false, false, dar
26. Given following code, what will happen to the output? public class MyClass
   public static void main(String args[])
    String str1="hello";
    String str2="hel";
    String str3=str2+"lo";
    if(str1==str3)
           System.out.println("str1 and str3 are
==");
    else
    {
not =="); System.out.println("str1 and str3 are
}
    if(str1.equals(str3))
    {
equals"); System.out.println("str1 and str3 are
    else
    {
           System.out.println("str1 and str3 are
not equals");
   }
}
a) str1 and str3 are ==
str1 and str3 are equals
b) str1 and str3 are not ==
str1 and str3 are equals
```



c) str1 and str3 are ==					
str1 and str3 are not ed	ıuals				
	,				
d) compilation error					
27. Select a wrong state	ement about native m	nethod.			
A. Native method can b			ahstract		
C. Native method car			nethod can be s	unchronized	
c. Native method ca	ii be iioii-static	D. Mative II	ietilou cali be s	ynchronized	
28. Constructor is the c	lass that does not pro	ovide informa	tion about, and	access to, a sing	le constructor of
A. True	B. False				
A. ITUE	D. Faise				
20. A alass samuet ha h					
29. A class cannot be be		••			
A. True	B.False				
30. String s1="hello"; S	77 0	h one will ret	E 100 100 100 100 100 100 100 100 100 10	. A	
A. s1==s2	B. s1.equals(s2)	n M	C. both a and	Z A	
32. What is the correct	ordering for the impo	ort, class and	package declara	<mark>tion w</mark> hen found	d in a single file?
A. package, import, cla			port, package		
C. import, package, class			, class, import		
c. import, package, cia.		D. package	, class, import		
33. When native metho	od recolution fails we	got			
		gei	D. NullDeinterF	veention	
A. NativeResolution			B. NullPointerE	· A	
C. UnsatisfiedLinkEr	ror		D. None of the	se	
34. Select the correct st	tatement a <mark>bout Func</mark> t	tional In <mark>terfac</mark>	ce. A.		
It should not contai	n default <mark>or static m</mark> e	thods			
B. It should contain on	ly one abstract meth	od.			
C. It should contain mo	re than one abstract	methods.			
D. None of these.					
35. Which operation is	allowed on String clas	: c			
A. +	B	,,	C. &		D. &&
Α. τ	D		C. Q		D. QQ
26 Using reflection u.s.	-n				
36. Using reflection u c					5
A. Access private fields	B. Access	s private meth	nods C. E	Both a and b	D. None
37. JRE contains					
A. Jvm B. jars	C. dlls	D.	all of the above	!	
38. Main() function is in	nvoked by				
A. Programmer	B. class_loader	C. jvm	D. none of	the above	
39 Address of next exc	ecuting instruction is	stored inside			
A. method area	B. stack		C. heap	D. PC_R	egister

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40. Method area store				
A. Class_bytecode	B. static_variables	B. static_variables		
41. In java objects are	created on			
A. Stack	B. heap	C. both A & B	D.none of the above	
42 Which of the follo	owing statements is tru	ie?		
A. Main is public B. M	ain is static C. Ma	ain accepts String[]	D. All of the above	
43. According to the n	ew version of java, alor	ng with byte,short,int ,	char following type is also allowed	
A. Double	B. float	C. String	D. none of the above	
44. By-default value fo	r the Reference type is	:		
A. false	B. 0	C. null	D.none of these	
45. In java by default n	nember functions are			
A. static	B. virtual	C. final	D.all of the above	
46 Just before object s	gets garbage collected t	following method is ca	lled	
A. finalize() B. go				
()	"	,		
47. In java the rule is				
A. member variable m	ust be initialized b <mark>efore</mark>	e use B. local varia	ble must be initialized before use	
C. both a and b		D. none o	of these	
	f static modifi <mark>er is remo</mark>	oved fro <mark>m the sign</mark> atur	e of the main method?	
A. Compilation Error.				
B. RunTime Error: NoS	W			
•	e and run without any	•		
D. Program Will compil	e and run to show the	required output.		
	<u>-</u>	**	by the garbage collector? A.	
	at the object has become	me unreachable.		
B. As soon as object is				
C. At fixed intervalm it D. None of the above.	cnecks for hull value.			
D. None of the above.				
50. Can constructor be	inherited?			
A. True		B. False		
51. Under what condit	ions is an object's finali	ze() method invoked b	y the garbage collector?	
A. Just before object	ct gets garbage collecte	ed.	B. As soon as object is set as null.	
C. At fixed interval	m it checks for null valu	ie.	D. None of the above.	
52. What is the output	?			
public class test10				

{

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```
static void call(int x)
   {
                        x+=2;
   }
   public static void main(String args[])
           int num=0;
   call(num++);
            System.out.println(num);
   }
}
A. 1
                                                C. 3
                        B. 2
                                                                        D. 0
53. Which of the following is the correct syntax for suggesting the JVM performs garbage collection.
A. System.free ();
                                  B. System.setGarbageCollection ();
   C. System.out.get ();
                                                D. System.gc ();
54. Which of the following is not primitive data type?
A. int
                  B. Boolean
                                  C.String
                                                        D. float
55. Static member scope is
A. They are created when the class is loaded at runtime.
B. They are created when main get called.
C. They are created when class object get created.
D. They are created when class get modified.
56 What will be the result of attempting to compile and run the following code? public class test3
   static int a;
                  int b;
   public test3()
            {
            int c;
                                                                                    b+=c;
                                                            a++;
                                    c=a;
            public static void main(String args[])
                        new test3();
            }
}
```

Select the one correct answer

- A. The code will fail to compile since the constructor is trying to access static members
- B. The code will fail to compile since the constructor is trying to use static field "a" before it has been initialized.
- C. The code will fail to compile since the constructor is trying to use static field "b" before it has been initialized.



- D. The code will fail to compile since the constructor is trying to use static field "c" before it has been initialized.
- E. The code will compile and run without any problems.

```
57. What will happen if you compile/ run the following code? public
class Q 11
{
static String str1»= "main method with String[] args";
static String str2 = "main method with int[] args";
public static void main(String[] args) {
System.out.println(str1); .
public static void main(int[] args)
System.out.println(str2);
} }
A. Duplicate method main(), compilation error at line 6.
B. Duplicate method main(), compilation error at line 11.
C. Prints "main method with main String[] args".
D. Prints "main method with main int[] args".
58. What is the output of the following code?
class Test
{
Test(int 1')
{
System.outfprintln("Test(" +i +")");
}
}
public class Q12
static Test t1 = new Test(1);
Test t2 = new Test(2); static
Test t3 = new Test(3);
public static void main(String[] args)
Q12 Q = new Q12();
}
}
A. Test(1)
Test(2)
Test(3)
B. Test(3)
Test(2)
Test(1)
C. Test(2)
Test(1)
Test(3)
```



```
D. Test(1) Test(3)
Test(2)
59. What is the output of the following code?
String str = "Welcome"; si;r.concat(" to
Java!");
System.out.println(str);
A. Strings are immutable, compilation error at line 3.
B. Strings are immutable, runtime exception at line 3.
C. Prints "Welcome".
D. Prints "Welcome to Java!".
60. What is the output of the following code? class
MyClass "
{
static int maxElements; MyClass(int
maxElements)
this.maxElements = maxElements;
}
}
public class Q19
public static void main(String[] args)
MyClass a = new MyClass(100); MyClass
b = new MyClass(100);
if(a.equals(—)
System.out.println("ObJects have tne same values;, else
System.out.println("Objects have different values");
}
A. Compiles error at line 20 equals () method was not defined. B.
Compiles fine, runtime exception at line 20
C. Print "object have the same values".
D. Print "object have the different values";
61. What will happen if you compilel run the following code?
   public class Q21
{
int maxElements;
  void Q21()
   {
           maxElements = 100; '
           System.out. println(maxElements);
Q21 (int i)
{ .
```

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maxElements = i;

e = new Employee("Denise", 36);

System.out.println(e.printDetails());

e.calculatePay();

}
}



```
System.out.println(maxElements);
 }
 public static void main(String[] args)
 \{ Q21 a = new Q21(); \}
 Q21 b = new Q21(999);
 }
 }
 A. Prints 100 and 999.
 B. Prints 999 and 100.
 C. Compilation error at line 3, variable maxElements was not initialized.
 D. Compilation error while calling parameterized constructor
 62. What will happen if you invoke the following method? public
 void check()
 {
 System.out.println(Math.min(-0.0,+0.0));
 System.out.println(Math.max(-0.0,+0.0));
 System.out.println(Math.min(-0.0,+0.0) == Math.max(0.0,+0.0));
 }
 A. prints -0.0, +0.0 and false.
                                                           B. prints -0.0, +0.0 and true.
 C. prints 0.0, 0.0 and false
                                                            D. prints 0.0, 0.0 and true
 63. What will be the output of the followingicode?
 1. String s1 = "Java2";
 String s2 = "Java2";
 3. if (s1 == s2)
 4. System.out.println("We are twins");
 5. else
 System.out.println("We are not twins");
 A. We are twins
 B. We are not twins
 C. The program will not compile.
 D. The program will compile, but will produce a run-time error.
64. In the following code, which is the earliest statement, where the object originally held in e, may be
 garbage collected: public class Test { public static void main (String'a"Fg§[]){ Employee e =_new
 Employee("Bob", 48); e.calculatePay();
 System.out.println(e.printDetails()); _ e
 = null;
```

```
58
```

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A. Line 7 B. Line 8 C. Line 10 D. Line 11 65. non static variables are defined in C. both 1 and2 D. none of the above. A. functions **B.** classes 66. String objects are C. all the above D. None of the above A. mutable B. immutable 67. toString function is a non final method of A. keyword B. method of String class C. method of Object class D. None of the above 68. converting primitives to objects is called as A. Conversion mechanisms **B.** Boxing D. none of the above C. Object Conversion 69. if we make constructors as static functions A. compile time error B. runtime error D. None of the above C. coding error 70. non static variables are for B. functions C. both 1 and 2 D. none of the above A. objects 71. class Α { int I; public void m1() System.out.println("value of i is" + i); public class Code1 public static void main(StringO args) { A obj = new A(); A obj1 = new A(); obj.I = 3; obj1. i=4; System.out.prIntln{obj1.i +·" + obj.I); } this program will print



```
C. compilation error
A. 3,4
                       B. 4,3
                                                                                  D. runtime error.
72.
class A
{
       public void m1()
       System.out.println("1");
       public static void m2()
        m1(); System.out.prinUn("2");
when we call m2 function, here output will be
A. 1, 2
                       B. 2, 1
                                               C. runtime error
                                                                                  D. compile time error
74. What is the output of following println statement
String str1 = "Hellow";
  System.out.println(str1.indexof('t'));
A. 0
                       B. can't be predicted
                                                           C. -1
                                                                                              D. 5
75. What could be output of the following fragment of code?
   public class Test
           Public static void main (String args[])
           {
                  string x = "hellow";
          int y = 9;
                       System.out.println(x += y);
           }
A. throws an exception as String and int are not compatible b)
hello9
c) Compilation error
d) None of these
76. What will be the output of the following fragment of code?
   public class Test
           public static void main(String [] args)
                       String s1 = "java";
                       String s2 = "java";
                       System.out.println(s1.equals(s2));
                       System.out.println(s1 == s2);
           }
```



```
}
A. false true
                        B. false false
                                                             C. true false
                                                                                     D. true true
77. Determine output
   public class Test
            public static void main(String args[])
                        String str = null;
                        if (str.length() = = 0)
                                    System.out.print("1");
                        } else if (str == null)
                        { System.out.print("2");
                        } else {
                                    System.out.print("3");
                                    B. "1" is printed
                                                                                     C. "2" is printed
A. compilation fails
D. "3" is printed
                                    E. An exception is thrown at runtime
78. What could be output of the following fragment of code?
   public class Test
            Public static void main (String args[])
                  string x = "hellow";
           int y = 9;
                        System.out.println(x += y);
            }
A. throws an exception as String and int are not compatible
B. hello9
C. Compilation error
D. None of these
79. class base
{
protected:
int a,b;
public:
void setab(int n, int m) (a=n; b=m;)
};
class derived zprotected vase
```



```
{ int c; public: void
setc(int n) {c=n;}
};
referring to the sample code above, how can you access the int member "a" in class derived? A.
using member functions of base only.
B. only by using friend functions.
C. using member functions of derived only.
D. by using member functions of derived and base
E. by using any function.
80. Study the below program
Public class Singleton
{
  Public static final Singleton instance = new Singleton();
  Public Singleton()
  {
  Public static Singleton getInstance()

{
           return instance;
  Public void foo()
}
Public class Test
   Public static void main(String[] args)
           Singleton a = new Singleton();
           a.foo();
           Singleton b = Singleton.getInstance();
           b.foo();
   }
}
Which of the numbered lines is a problem?
A. 1
                       B. 3
                                              C. Both
                                                                                 D. None
81. If an instance of class A is created in what in what order will the numbered lines be hit public
class A
{
1: public int a = 1;
  Public A()
{
2: a = 2;
}
{
3: a = 3;
```

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```
}
}
A. Class will not compile
                                              B. 132
                                                                     C. 213
                                                                                            D. 21
82. How many times will be the line numbered as 1 be hit?
Public class A
   Public static int a =1;
  Public A()
   {
            a = 2;
   }
   Static
   {
           a = 3;
   }
}
Public class Test
                                 ram Mantri
   Public static void main(String[] args)
   {
           A a1 = null;
           A a2 = new A();
   }
}
                                                                     C. Never
A. Program will not compile
                                              B. 1
                                                                                            D. 4
83. What is the super class of integer?
A. Object
                       B. Numeric
                                                         C. Number
                                                                                            D. Short
84. What is the name of the concept by which I can assign an int directly to an Integer?
A. Casting
B. Auto Assignment C.
  Auto boxing
D. It is not possible. Primitive type cannot be assigned to objects
85. Compiler which converts bytecode to native code is
                                              C. byte_compiler
   A. Jit compiler
                       B. javac_compiler
                                                                     D. none of the above
86. Data types in java are
   A. Primitive_type B. reference_type
                                              C. both a and b
                                                                     D. none of hese
87. What is the correct order?
A. Linking loading initializing
                                               B. loading_linking_initializiing
                                                                                   C.
  initializing loading linking
                                        D.loading initializing linking
88. Java does not support
```

B. friend keyword

A. pointers

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C. multiple_inheritance

B. FTPC. SMTP

D. all of the above

SOCKET PROGRAMMING

	Which of the follow A: InetAddress	wing class al	lows Tcp Serve B: ServerSocl		for client on C: Socket	a particula	r port? D: none of t	he above
	2. One of the followin A: 1 to 65535	ng port rang	e is valid for N B: 1023 to 65	•	•	in java C: 1024 to	65535	D: 0 to 1023
	Which one is usedA: DatagramPacket	to send pac	ket over the no B: Socket	etwork in	case of UDP C: Datagran		D: Datagran	nSocket
	4. Which of the follow A: FTP	wing is Appli B: HTTP		otocol? : JRMP		D: all of the	e above	
	5. A is an er A. ServerSocket	110 -110-11	ommunication B. Socket	n betweer	two machir C. Datagran		D. Datagram	nPacket
	6. Which of the followA: InetAddressC: DatagramPacket	wing class al	lows UDP Serv B: Datagrams D: non <mark>e of th</mark>	Socket	t for client or	n a particula	ar port?	
	7. One of the following A: IPAddress	ng class is us	ed to represer B: InetAddre		ess of a mac C: Internet		D: InternetP	acketAddress
	8. Which method is uB: receive C: wait	ised to wait	fo <mark>r client t</mark> o ge	et connec	ted in TCP?	A: accept		
	D: socketWait							
	9. Which of the followA: TCP	B: HTTP	_	otocol? : UDP		D: all of the	e above	
	10. The class which is A. Socket	used to send B. UDPSoc	-		IDP is agramPacke	t	D. UserDat	agramSocket
В. С.	11. The class which re InternetAddress IPAddress InetAddress none of the above	epresents IP	address of ma	chine is				
	Which is Application Is	ayer						

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D.	all of the above
A. B.	method is used to wait for client request in UDP Wait receive accept
D.	none of these
14.	method is used to wait for client request in TCP
A.	Wait
В.	receive
C.	accept
D.	none of these
	If we want to pass an object over network it should implement
	Runnable
В.	Serializable
C.	Cloneable none of these
υ.	none of these
16	class is used to make server wait for client request in TCP.
	Socket
	ServerSocket
	SocketInputStream
	none of these
17.	Valid range of port number for a java application is
	0 to 65535
В.	1 to 65535
C.	1024 to 65535
D.	none of these
18.	Marshalling is
A.	Converting packets into data
В.	converting data into packets
C.	converting bytes into character
	19. TCP is reliable
	A. True B. false
	20. What will be printed out if you attempt to compile and run the following code?
	int i=9; switch
	(i) { deiault:
	System.out.println("default"); cazse 0:
	Sy:stem.out.println("zero");

break; case 1:

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System.out.println("one"); case

- 2: system.out.println("two"); }
- a) default
- **b)** default, zero
- c) error default clause not defined
- d) no output displayed
- 21. Which of the following lines will compile without warning or error.
- a) float f=1.3;
- b) char c="a";
- c) byte b=257; '
- d) boolean b=null;
- e) int i=10;
- 22. How to terminate JVM when I close all the application windows?
- a. Systemexit(u)
- b. System.exit(1)
- c. 3ystem.exit(2)
- d. All are invalid answers

