Object Oriented Programming with Java



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BASIC

1. What is the output of the following code?

```
inti = 16; intj = 17;
```

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()

```
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.



4. What is the output for the following	owing lines of code?		
System.out.printin(" " +2 + 3);			
System.out.printin(2*+ 3); Syster	n.out.println(2 + 3 +"")-; system.	out;println(2+""+3);	
A. Compilation, error at line 3			
B. Print s 23,6,5 ,2,3			
C. Prints 5, 5, 5 and 23.			
D. Prints 23, 5, 23 and 23.			
5. What will happen if you compi	le/ run this code?		
inti = 012; intj = 034; int $k = 056$;	int I = 078;		
System.out:println(i);			
System.out.println(j);			
System.out.println(k);			
A.Prints12,34"and56. * ~			
B. Prints 24,68 and 112.			
C. Prints 10,28 and 46.		A A	
D. Compilation error	ram Man	ıtri 🛦	
6. When executed the following I			
System.out.println(-1 * Double.N	IEGAT VE_ <mark>NFINITY)</mark> ;		
A. –Infinity B. Infinity	C. NaN	D. –NaN	
7 Which of the following are the	e correc <mark>t signatu</mark> res for m <mark>ethod r</mark>	nain()?	
A. public static void main()			
B. public static int main(String ar	rg[])		
C. public static void main(String	arg[])		
D. public static void main(String	args[])		
E. private static void main(String	gargs[])		
O Militalia of the Callia Caracial acc			
8. Which of the following statem			
Java provides automatic garbage			
B. The garbage collector is a low	•	a lla atar	
C. The method gc, when execute D. If certain precautions are not			ctill in uco
•	, , ,		
E. You can force garbage collecti	on or an object by setting an rere	erences to that object	to nuii.
9. What is the size of a byte data	tyne?		
A128 to 127	type.		
B. (-2 power 8)-1 to 2 power 8			
C. -255 to 256			
D. depends on the particular imp	olementation of the Java Virtual r	machine	
= 1 sepense on the particular imp			
10. Which line out of the following	ng will compile without a warning	g or an error?	
A. boolean b=null;	B. float f=1.3;	C. byte b=257;	D. int i=10;
11. jvm ls			
A. platform dependant		B. platform Indep	edent

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C. depends on jvm	implementation		D. Both b and c	
12. return type of	main method is			
A. int	B. char	C. void	D. None of the ab	ove
13. Garbage collec	ction works on			
A. heap	B. queue	C. tree	D. None of the a	bove
(i) { case O):		the following code int i=:	1; switch
System.out.println System.out.println	nUn("two"); default:	.:		
A. One	B. one, default	m Mc.o	ne,two,default	D. Default
	art, which value is used ble's B. the	d when shop() is execu e class variable's	called Walmart has the sa ting? this would cause a comp	
16. void main() { int k=35,*z,*y; z=8 %d",k,++*z,*y++);	&k y=z *z =++*y; k <mark>++;</mark>	printf("%d		
}				
A. 363637	В. 383837	C. 373737	D. none of these	
17. what is the our int fun (int i) { printf("in funtions } void fun(int & i)	tput of the following c int i");	program:		
{	0			
<pre>printf("in function }</pre>	s int& i");			
main()				
{				
int i=9;				
fun(i)-; เ				
J				

B. in functions int& i

A. ambiguity error

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));
}
                                            C. 12
                                                                                        E. 7
  A. 17
                      B. 14
                                                                  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
                                 ram 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.

B. FileDialog extends Dialog

C. Dialog

extends Frame

D. Window extends Container

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	Given public class Tria	l extends Frame					
{	public Tria	I(String mess)					
	. {	,					
	·	MenuBar mb=ne // here	w MenuBa	r();			
	}	// Here					
}	J						
	ow will u add "mb" to t	he frame?					
	addMenuBar(mb);	B. setMenuBar(m	nb); C. ml	o.addN	ЛenuBar();	D. add(mb);	
	Which method is requ	•	•	•	-	_	
Α.	getParameter	B. getInitParame	ter C. get/	Applet	:Parameter	D. none of these	
	the user's computer a		ed using th		·	on the user's computer a	ind run on
	A Java application		70		B. A Java ap	a A	
	A Java Servlet	TUTTOUT	22.	1 / III . A	None of the	1/4: 1/4	
). java.awt.Component iis x and y specify	class method getL	.ocation() r	eturns	s Point (cor	ntaing x and y cordinate).	What does
A.	Specify the position o	f components low	er-left com	poner	nt in the co	<mark>ordinate</mark> space of the cor	mponent's
•	arent.						
		of components up	per-left co	mpon	ent in the o	coordinate space of the	
	omponent's parent.						
		f components upp	er-left com	npone	nt in the co	ordinate space of the scr	reen. D.
No	one of the above						
		Carlow Cara Palata		<i>[</i>	11 A1A/T		
		int()", for a lightwo	eignt comp	onent	tne AWI	package calls which com	ponent
m	ethod?	D. und	oto()			C. paint()	D draw()
	A. repaint()	B. upd	ate()			C. paint()	D. draw()
12	2. Which of the following	ng the valid way to	embed an	apple	t class nam	ned myapplet into a web	page.
A.	<applet class="myappl</td"><td>et.class width=100</td><td>height=10</td><td>)0> <td>applet></td><td></td><td></td></td></applet>	et.class width=100	height=10)0> <td>applet></td> <td></td> <td></td>	applet>		
В.	<applet code="myappl</td"><td>et width=100 heig</td><td>ht=100> <!--</td--><td>apple</td><td>t></td><td></td><td></td></td></applet>	et width=100 heig	ht=100> </td <td>apple</td> <td>t></td> <td></td> <td></td>	apple	t>		
C.	<applet code="myapp</td"><td>let.class height=10</td><td>00 width=1</td><td>.00 > <</td><td>/applet></td><td>D. <applet param="myapլ</td"><td>olet.class</td></applet></td></applet>	let.class height=10	00 width=1	.00 > <	/applet>	D. <applet param="myapլ</td"><td>olet.class</td></applet>	olet.class
	width=100 height=10	0>					
13	3. What is the purpose	of "code" attribute	e of the ap	plet ta	g? A.		
Α	URL that points to the	class of the apple	t.				
В.	A URL to the applet w	hen it is stored in j	ar or zip fil	le.			
C.	Indicate the base URL	of the applet if the	e code attr	ibute	is relative.		
D.	Defines the horizonta	I spacing around th	ne applet.				
14	I. Executable applet is	nothing but	file of	applet			
	• •	3. java	C. htn		D. applet		
	-	,			1-1-1-2		

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.

- B. By default 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.

1) Cloneable interface contains "o A. True	CLONE REFLI clone()" method B. False	ECTION API	
2) Clone method is declared as th	nrows		
A. IOException C. CloneNotSupportedEx	xception	B. CloneNotFoundEx D. None of the above	•
3) Clone() method in Object class A. Protected	s is B. Public	C. Default	D.Private
4) If u override "clone()" method A. Protected B. Pub	olic am C. pi	odifier rotected or public	D. Default
5) By default "clone" method doe			
Interface which does not contain	any met <mark>hod is cal</mark> led thodles <mark>s</mark>	C. Marker	D. None
A. True8) Static nested class methods caA. True	B. False		
9) There is one instance of class 'A. True	'Class" per class loade B. False	d.	
10) To instantiate a particular cla A. New Class B. Class.n	ss through reflection a	api we use C. Class.newCreate	D. None of the above
	COLLECT	ION API	
 One of the following throws C Hashtable ArrayList 	B: Copy	nException if we try to m OnWriteArrayList urrentHashMap	odify while iterating over it.
2. The default capacity and load A: 12 and 0.60 B: 16	factor for Map implen and 0.75 C: 20 an		d 0.60

3. Given

Class Animal(void eat(){}}

Class Dog extends Animal{}



Class Ca	t extends Animal{}			
Void dis	p(List super Dog mylis	st)		
Which o	f the following is the wro	ong argument to disp	?	
A: Ar	rayList of Animal	B: Array	List of Dog	
	rayList of Object	D: All th	e above are correct arg	guments.
4. Whic	h statement is true?			
A: Lis	st will allow u to add	inside list.	B: List <object> will</object>	allow u to add inside list
C: bo	oth A and B		D: we can pass Array	List <integer> to List<object></object></integer>
5. Whic	h collection class allows y	ou to grow or shrink i	ts size and provides ind	exed access to its elements,
but w	hose methods are not sy	nchronized?		
A: java.	util.HashSet		B: java.util.LinkedH	ashSet
C: java.u	ıtil.List		D: java.util.ArrayLis	st
6. Whic	h of the following class u	ses String as key to sto	ore the value in object?	
a) Dictio	nary b) Array	c) ArrayList	d) Properties	A.
	Chai	TACTED	1 antai	
7. Whic	h of these class objects u	ses key to store value		
a) Hasht	table b) Dictionary	c) M <mark>ap</mark>	d) all if the mentioned	
8	can be used to cont	rol the or <mark>der of cer</mark> tai	n data structure and co	llection of object too.
a) Serial	comparators	b) natur <mark>al compa</mark> rator	rs /	
c) co ı	mparators	d) all of	the <mark>above</mark>	
9. How	does the set collection de	eal w <mark>ith dupli</mark> cate eler	n <mark>ents?</mark>	
A. An ex	ception is thrown if you	attempt to add an ele	<mark>ment wit</mark> h a duplicate v	alue
B. The a	ndd method returns false	if you attempt to add	<mark>d an ele</mark> ment with a du	plicate value
C. A set	may contain elements th	nat return duplicate va	lues from a call to the e	equals method
D. Dupli	cate values will cause an	error at compile time		
10.	What is the sequence	followed by HashMa	o or HashSet while addi	ng or retrieving entries.
A: ==, e	quals(), hashcode() B: 6	•		•
these	1 0//	1 (// /	0	,,
11.	If you try to invoke "r	emove()" method on i	iterator of CopyOnWrite	eArrayList , it raises following
	exception	V	.,	, ,
A: Concu	•	tion B: Unsupported	OperationException C:	IllegalOperationException
	of these	••		
12.	Map implementation	which provides both	Thread-Safety as well as	s Concurrency.
A: Co	ncurrentHashMap	B: HashMap	C: HashTable	D: none of these
	·	·		
13.	Stream API is used to	implement		
A: Int	ternal iteration	B.	External iteration	
C. Bo	th A and B		D. None of the abov	/e



1.4	In got () or put() of man impleme	ntation oquals () is Called	hoforo
14. A. True	In get () or put() of map impleme B. False	ntation equals () is Called	r before ==.
15.	Algorithms are present inside.		
A. LinkedLi	•	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 nalizable D. Comp	·	·
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	nto D. Map
20.	In map implementation when ha	shcode of two keys are sa	ame it is called as?
A. Hashing	B. Hash Collision	C. Hash Clash	D. None of these
21. One of A. Compar	the following allows us to define 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	the followings is not Thread Safe		
A. StringBu	-	C. Vector	D. none of these
order that	se that you would like to create an is the same as the iteration order	of an existing instance of	a Map. Which concrete
A. TreeMa	ration of the Map interface should p B. HashM		ance? C. LinkedHashMap
25. Which o			ds, inheriting them directly from class
Object?	lang.String		B. java.lang.Double
=	lang.StringBuffer		D. java.lang.Character
26.What w	vill happen if you compile/run the ent(10);	folowing lines of code? V	ector a = new Vector();
=	t.println(a.elementAt(0)_);		
A. Prints 1		B. Prints 11.	
C. Compila	tion error at line 3.	D. Prints some garbage	2.
Q.27 Comp	parable is a		



A. interface	B. classes	C. Both 1 and 2	D.none of the above
Q.28 Arraylist is			
A. class		B. List implementation	on
C. Both a and b		D. None of the above	
Q.29 hash code is us	ed by		
A. set	B. map	C. both a & b	D. None of the above
Q.30 Which of the fo	llowing data st	ructures implements FILO mecha	anism
a) Queue	b) Hash	c) Linked List	d) Stack
Q.31 Which of the fo	llowing statem	ents is true?	
a) Hashmap is thread			
b) Hashmap is threac) Both are thread-sa		ashMap is not	
•		71 //	
a) Both are not times	nru	am Man	tri
		EXCEPTION	
1. Given Following co	ode: import ja	va.io.*; class	
sub extends base			
{			
	void disp()tl	nrows IOException	
	{		
}	}		
class base			
{	W/A		
·	void disp()th	nrows Exception	
	{	·	
	}		
}			
public class myclass			
{			
	public statio	void main(String args[])	
	{	try	
		t base b=new sub();	h disp():
		base b-new sub(), }	b.disp();
		catch(Exception ee)	
		[
		System.out.println(e	e);
		} System.out.println("done");	
	}	System.out.printing done 1,	
}	J		

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A. warning	B. compilation error C. runtime error	D. outpu
done"	·	-

- 2. Which statement is false from the following?
 - A. we can have try and finally without catch
- B. finally gets executed irrespective whether exception is raised or not
- C. if system.exit is called from within try or catch, finally will not be executed at all **D.** none of the above
- 3. Class.forName requires which of the following exception to be handled
 - A. ClassCastException

- B. ClassNotFoundException
- C. IllegalAccessException

- D. none of the above
- 4. Class.newInstance() requires which of the following exception to be handled
 - A. IOException

- B. ClassNotFoundException
- C. IllegalAccessException

- D. none of the above
- 5. Imagine there are two exception classes Exception1 and Exception2 derived from the Exception class. Given these two definitions:

Now define a class "Third" derived from "Second" and override "test ()" method inside it. What exceptions can Third's test() method throw?

A. Exception1

B. Exception2

C. No checked exceptions

- D. it can declare any checked
- 6. What letters get written to the standard output with the following code? public class MyClass {

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```
{
                                   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 throwIt()
    {
        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. 1
   What is the result?
   A. Finally
                                      B. Blank
                                                             C. Null
                                                                                    D. None of the above
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
```



```
{
                       }
}
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 M
  }
  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
  C. new Exception
                                     D. Don't need to specify anything
  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 s3="hello";

String s2=new String("hello");



```
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?
  A. Yes, yes
                                      B. Yes, no
                                                         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{}
  C. Try{}finally{}
                                      D. All of the above
  25. What will be returned?
  Try{return 1;}catch(){return 2;}finally{return 3;}
  A. 3
                          B.2
                                                   C.1
                                                                D. Compilation error
```

Object Oriented Programming with Java



A. IOException B. ClassNotFoundException C. FileNotFoundException D. None of the above 27. Which one is checked exception A. ClassCastException **B. MalformedURLException** C. ArrayIndexOutOfBoundsException D. None of the above 28. In order to declare exception which keyword is used A. Throw D. None of the Above B. Throws C. Throwing 29. when an exception happens in the finally block it should 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 are automatically propagated to the caller. A. True B. False 31. Unchecked exceptions are automatically propagated to the caller A. True B. False 32. If u want to create checked exception as user defined exception u need to extend A. RuntimeException B. Throwable C. Exception D. Error 33. When u write one try and multiple catch the most specific catch should precede the most generic catch A. True B. False

A. Hello B. World

C. Compilation Error D. First Exception then World

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

} }

A. Error B. Exception C. Both a and b D. None of the above.

Object Oriented Programming with Java



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 C. Writer 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?

Object Oriented Programming with Java



A. returns null B. "" -1

C. throws java.io.EOFException - correct ans

D. closes automatically

8. 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++)</li>
b. {
i. dos.write(i);
c. }
B. for(int i=0;i<=9;i++)</li>
a. {
i. f.writeInf(i);
b. }
```

```
C. for(int i=0;i<=9;i++)</li>i. {i. fos.writeInt(i);ii. }
```

D. DataOutputStream dos=new DataOutputStream(fos);

- 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

Object Oriented Programming with Java



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
intk; 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
The Distriction, District 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

Object Oriented Programming with Java



C. BufferedWriter	D. none of the above
19. Serializable extends E	rternalizable
A. True	B. false
20. Serializable is marker	nterface.
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	f serialversionUID does not match we get
A. IllegalClassException	B. InvalidClassException
C. NullPointerException	D. none of the above
23. Which is correct	
A. FileOutputStream fos=	new FileOutputStream(object to be added); ObjectOutputStream oos=new
	filename"); oos.writeObject();
B. FileOutputStream fos	new FileOutputStrea <mark>m("filen</mark> am <mark>e");</mark>
•	enew ObjectOutpu <mark>tStream(</mark> ob <mark>ject to be added); oos.w</mark> riteObject();
-	new FileOutput <mark>Stream("</mark> filename <mark>"); ObjectOutput</mark> Stream oos=new fos); oos.write <mark>Object(o</mark> bject to be added);
24. File class is used to c	eate new <mark>file.</mark>
A. True	B. false
25. in case of Externalization is called.	ole when u deserialize an object first readExternal() is called and then constructor
A. True	B. false
26. In order to serialize i	ner class, outer class must be Serializable
A. True	B. false
27. If inner class implem	ents Externalizable we don't get any problem while deserialization A. True B. false
28. If static nested class	mplements Externalizable we don't get any problem while deserialization
A. True	B. false
29. Java.lang.Object clas	implements Serializable
A. True	B. false
30. transient variables m	ake sense I n context

A. inheritance B. Association C. Serialization D. None of the above

Object Oriented Programming with Java



A.

A. InputStream B. Writer	C. ReadStrea		D. InputOutputStream
32. FileWriter fw =new FileWr A. Text based io B. bir	• •		using D. none of the above.
	GEN	ERICS	
 At the time of compilation c Generic-removal B. Gener 			tion about generics. This is known as none of the above
2. <p extends="" q=""> here Q can b A. True</p>	e either class or interfa B. false	ace	
3. We can't have generic meth	od in non-generic class	S	
A. True	B. false		
4. Polymorphism applies to ba A. True	se type as well as gene B. false	ric type.	ntri
5. Mixing generic and non-gen	erics can be risky		
A. True	B. false		
6. If the base class reference re A. IllegalArrayException C. NullPointerException 7. In case of Extends w	B. Arra D. nor re can add	ray then th ayStoreExe ne of the a	ception Control Control
A. True	B. false		
8. In case of super we A. True	can add B.false		
9. List Super Thread mylist= A. Yes	enew ArrayList <object: b.="" no<="" td=""><td>>() will w</td><td>ork</td></object:>	>() will w	ork
10. List Super Dog mylist=ı A. Yes	new ArrayList <animal> B. no</animal>	·() mylist.:	add(new Cat()); will work
11. List allows u to add A. True	B. false		
12. List <object> allows u to ad</object>	d		
A. True	B. false		

Object Oriented Programming with Java



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
                       hriram 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 instanceof 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.
```

Object Oriented Programming with Java



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
{
public class test12 Milliam 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
                                           C. sub1
                      B. sub3
                                                                 D. sub2
9. Given the following code, what can be said about the statement s=(sub)b? class base
```

Object Oriented Programming with Java



```
{
}
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 Mant
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;
```

}

class Baz extends Foo

double d;

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[])
   {
                                           nt.disp();
            Trial t=new Trial();
   }
}
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
                       B. abstract
                                               C. static
                                                                      D. transient
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[])
                                       b=new sub();
                                                                           b.print();
               base b;
      }
  }
      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";
   }
      1.
               Test t=new Test();
      2.
               System.out.println(t.str);
      3.
               t=null;
      4.
               System.out.println(t.str);
               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);
      8.
               t.str=null;
      9.
               t=null;
               System.out.println("done");
At which line the object created at 1 will be marked for garbage collection?
   A: Line 3
                          B: Line 4
                                                   C: Can't say exactly when
                                                                                       D: both Line3 and Line4
   24.
              What is the output?
   public class Trial
   {
```



```
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?
                                                         B. after line 14
         A. after line 12
         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
```

Object Oriented Programming with Java



```
{
            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.

Object Oriented Programming with Java



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 A. BadCastException B. OutOfHierarchyException D. None of the above C. ClassCastException 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 D.None of the above A. main function C. in the subclass. B.in the super class 41. extends keyword can be used with A. Interface C. both D. None of the above B. class 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 C. both a and b D. None of the above B. abstraction 45. The job that is done by the thread is decided by

Object Oriented Programming with Java



A. run method	B. start method	C. main method	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()				
f				
System.out.println(i);				
}				
)				
class B extends A { int j				
void display() { System.	.out.println(j));			
}	7 0	78 //		
}	hriram	1 VIani	77	
		LIVACENCE		
public static void main	(Stri111g argsO)			
{				
B obj = new B();				
obj.i=1; obj.j=2;				
obj.display();				
}				
}				
Output of this program	n is			
A.O	B. 1	C. 2	D. Compilation Erro	r
48. interface Z extends	s A, here A is			
A. class	B. function	C. interface	D. none of the abov	e.
49 How can we ensure	e that a class will not be	inherited from?		
A. Delare it as constan		B. Declare	it as final	
C. Declare it as static		D. None of		
C. Deciare it as static		D. None of	the above	
EO cupardass raf =nov	w SubclassObject(),canr	not accord typically		
A. Non final functions	= ::		ections of super class	
	•		ections of super class	
C. Exclusive functions	OI SUD CIASS	D. None of	the above.	
0.54.144		· · · · · · · · · · · · · · · · · · ·		
· -	class implements an int	· · · · · · · · · · · · · · · · · · ·		
A.Two methods define		•	tain methods in an interface	
C. Any methods in a cla	ass.	D. All metl	nods defined in that interface.	
52. Which modifier wo	ould be used to limit the	e methods visibility to o	nly the ot the current oackaae a	nd all

subclasses.

36



A. public		B. private	C. protecte	ed	D. default
53. The va A. Public	riables in an	interface can have whi B. Static	ich modifier	s? C. Final	D. All of the above
54. To cor A. == ope	-	er two references poin B. equals function	t to the sam C. we car	-	D. none of the above.
55. non fii A. overrid	nal functions den	have to be B. may be overridden		C. ABoth a and b	D. None of the above
class A	s the output	of this program?			
{	Public int i; Private int				
} Class B {	extends A	<u>hriran</u>	ı M	antri	
	Void displa {	super.j = super.i + 1;	nnori ""	supportiv	
}	}	System.out.println(sup	pper.i+ +	- supper.jj,	
	class inheri {	public static void main	n (String args	s(I)	
		{ B obj = new B();			
	obj.i	=1;			
obj.j=2	;	obj.display	/();		
A. 22	}	B. 33	C. Runtim	e Error	D. Compilation Error
57. A class				t the class to be subclas	sed. Using the
A. protect	_keyword we ed, interface	e can abstract a class in B. final, in		C. public, friend	D. final, protected
	the correct s	tatement g is called compiled tin	ne polvmor	phism	
		g is called runtime poly		•	
	is correct				
D. Both [A] 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 = newB();
   a.foo();
```

Object Oriented Programming with Java



```
}
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

Object Oriented Programming with Java

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



MULTITHREADING

applications. C: join A: start B: sleep D: run 2. Given public class Trial extends Thread { public void run()throws NullPointerException System.out.println("hello"); public static void main(String args[]) new Trial().start(); System.out.println("done"); } } 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 "NullPointer Exception" 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();



- 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[] ar	·gs) {		
Thread.sleep(3000);			
System.out.println("sleep");			
}			
}			
A: No error, prints sleep	B: Compilation error		
C: Runtime Error	D: No error & no out	put	
8. Which of the following are me	ethods of the Runnable	interface?	
A: run B: start	C: yield	D: sto	р
9. While using Thread, which is i	ncorrect \(\)	lantri	
A. u invoke run()	B. u i <mark>nvoke sta</mark> r	t()	
C. u implement Runnable	D. u exte	nd Thread	
10. Which type of instanceof does	s target <mark>Object ha</mark> ve to	pas <mark>s for this t</mark> o be leg	gal while using
Thread t=new Thread(targetO	bject);		
A. targetObject instanceof Thread	B. target	t <mark>Object ins</mark> tanceof Ap	pplet
C. targetObject instanceof Obj	ect	D. targetObject in	stanceof Runnable
11 are utilized to co	ntrol the access to an o	<mark>object</mark> especially in m	ultithreaded programming?
A. Asynchronized methods	B. seriali	<mark>zed m</mark> ethods	
C. synchronized methods	D. both a	a and c	
12 means each me	thod in multithreaded	environment doesn't	t access data by multiple
threads at the same time.			
A. Thread detach	B. thread isolation	C. thread safety	D. thread lock
40 1441 51 51 51			2
13. Which of the following starts			
A. System class B. main m		keyword	D. none of these
14. Which two can be used to cre			
A. Extend java.lang.Thread and o			
B. Extend java.lang.Runnable and			
C. Implement java.lang.thread an	•		
D. Implement java.lang.Runnable	and implement the ru	n method.	
15. What is the use of the synchro	onized keyword?		
A. Allows two process to run in pa	•	cate with each other	
·			
B. Ensures only one thread at a ti	ime may access a metl	nod or object	

Object Oriented Programming with Java



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.lllegalThreadStateException
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.
```

3. public static void main(String [] args) {

MyThread t = new MyThread();



	= new Thread(t);	6. x.start(); 7.]	}			
10. 11.	public void run() { for(int i=0;i<3;++i) System.out.print(i	=				
	} 13. }					
14. } A. Compilat	ion fails.	В. 123.		C. 0123	D.012	
19. In case o A. False	of class lock, non-s	tatic synchroni	ized methods o B. true	come into picture.		
20. Sleep re A. True	leases the lock wh	ereas wait doe	es not. B. False			
A. If a notify B. The obje C. An excep	ct issuing the call option will be raised ct issuing the call t	eady been sent to wait() will h	to that object to	then it has no effect ner object sends a	notify() or notifyAll	
	he following meth able state.	od has to be in	nvoked by the p	o <mark>rogramm</mark> er in ord	er to bring thread f	rom born
A: start	B: slee	p	C: join	D: run		
A: you can r B: synchron		llar th <mark>read</mark> be a <mark>pplied to</mark> s	tatic m <mark>ethods</mark>	ed methods or block	k D:	
			s raised in a sy	ynchronized code,	lock is automatical	l y
B. in case of C. Both A ar D. None of t	nd B.	hen exception	is raised lock	is automatically relo	eased.	
25. Threads A. True	are lightweight as	compare to pi	rocesses B. false			
26. The met	hod used to regist	er thread with	JVM schedule	r		
A. urn	B. regi	ister	C. start	D. none	e of the above	
•	ult the priority of the		_	_	6.1	
A. Minimun	n B. max	ımum	C. normal	D. none	of the above	



```
28. Sleep releases the lock wait does not
                                              B. false
A. True
29. One of the following methods programmer never invokes in case of multi-threading application
  A. Run
                                   B. start
                                                                                 D. notify
                                                          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();
                                   B. Exception during runtime
A. Compile time error
C. No error no output
                                   D. Program will behave differently on different platforms
32. Wait, notify and notifyAll methods are
A. Abstract
                                                              D. none of the above
                  B. static
                                        C. final
33. All the blocking methods i.e. sleep, wait and join can throw
A. IllegalMonitorStateException
                                               B. InterruptedException
                                                          D. none of the above
   C. BlockingException
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
```

Object Oriented Programming with Java



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

B.start method A. run method C.main method D.None of the above 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 A. Prints nothing B. Prints: 0 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); } }

OOPS

C. String class

B. Object class

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

A. Thread class

This will call the toString method of

D. none of the above

Object Oriented Programming with Java



```
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
                                                                       D: both A and B
A: public
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");
}
A: output "0"
                        B: NullPointerException
                                                            C: Compilation error D: output "garbage"
6. Given public class Trial (static Double d;
public static void main(String args[])
   {
            if(d==0)
            {
                       System.out.println("0");
```

else

Object Oriented Programming with Java



```
{
                       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
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
```

Object Oriented Programming with Java



17. Which of the follo	wing is not abstract?			
A. Thread	B. Collection	C. Abstra	actList	D. List
18. To provide access is used?	to members of the cla	ass to another class in d	ifferent package w	hich access specifier
A. Public	B. protected	C. private	D. no modifier	
19. Which of these me	ethods is rounding fun	action of Math class?		
A. max()	B. min()	C. abs()	D. all of the abo	ove
20. In java System.out	is an object of type _			
A. InputStream	B. PrintStream	C. OutputStream	D. BufferedInp	outStream
A. It can extend exactB. It can extend exactC. It can extend exactD. It can implement m	ly one class and imple ly one class and can in cly one class or impler nultiple interfaces rega nce method would ret nd b="butterFLY"	ported by an Anonymo ment exactly one interf applement multiple inter ment exactly one interf ardless of whether it als turn true when invoked perCase() c) toLow	face faces ace o extends a class. liked this: a.meth	
a) equalsignorecase()) Б) 100р	percase() c) tolow	ercase() u)	equais()
23. Which of the followard A. Determining the C. Determining dup	state of an obje <mark>ct</mark>	B. Deter	mining object valid	
constructor of the B. this() constructor is constructor of the sub C. this() constructor is constructor of the	r is invoked within a mosub class. s invoked outside a mosclass. s invoked within a messub class. sub class.	nd super() ? nethod of a class while the thod of a class while sethod of a class while superhod	super() constructor	r is invoked within the is invoked outside the
_	nain(String args[]) ew StringBuffer("Anui ew StringBuffer("Anui	rag");		
System.out.println	(sb1==sb2);			

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, 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
```

Object Oriented Programming with Java



of

c) str1 and str3 are ==					
str1 and str3 are not e	quals				
d) compilation error					
27. Select a wrong stat	tement about native n	nethod.			
A. Native method can	be static B. Native m	ethod can be	abstract		
C. Native method c	an be non-static	D. Native m	ethod can be sy	rnchronized	
28. Constructor is the a class.	class that does not pro	ovide informat	ion about, and	access to, a sing	le constructor of
A. True	B. False				
29. A class cannot be b	ooth abstract and final				
A. True	B.False				
30. String s1="hello"; S	String s2="hello"; whic	h one will retu	ırn true		
A. s1==s2	B. s1.equals(s2)	n M	C. both a and b	i 🛕	
32. What is the correct				<mark>tion w</mark> hen found	I in a single file?
A. package, import, cl		B. class, im	oort, package		
C. import, package, cla	ass	D. package,	class, import		
33. When native meth	od resolution fails we	get			
A. NativeResolution			B. NullPointerE	xception	
C. UnsatisfiedLinkE			D. None of thes	·	
34. Select the correct s	statement ab <mark>out Func</mark> in default <mark>or static m</mark> e		e. A.		
B. It should contain or	nly one abstract meth	od.			n.
C. It should contain me	-				
D. None of these.					
35. Which operation is	allowed on String cla	SS			
A. +	В		C. &		D. &&
36. Using reflection u	can				
A. Access private field	B. Access	s private meth	ods C. B	oth a and b	D. None
37. JRE contains					
A. Jvm B. jars	C. dlls	D.	all of the above		
38. Main() function is i	nvoked by				
A. Programmer	B. class_loader	C. jvm	D. none of	the above	
39 Address of next ex	ecuting instruction is	stored inside			
A. method_area	B. stack		C. heap	D. PC_R	egister
	_			_	_

Object Oriented Programming with Java



40. Method area stores	information about		
A. Class_bytecode	B. static_variables	C. method_names	D. all of the above
41. In java objects are cr	reated on		
A. Stack	B. heap	C. both A & B	D.none of the above
42 Which of the follow	ving statements is tru	e?	
A. Main is public B. Mai	n is static C. Ma	ain accepts String[]	D. All of the above
A. Double	B. float	C. String	har following type is also allowed D. none of the above
44. By-default value for			5 (1)
A. false	В. О	C. null	D.none of these
45. In java by default me			
A. static	B. virtual	C. final	D.all of the above
46. Just before object ge	ts garbage collected f	following method is call	ed
A. finalize() B. gc()	C. ma	nin() D. none of the	e above
47. In java the rule is			
A. member variable mus	t be initialized b <mark>efore</mark>		ole must be initialized before use
C. both a and b		D. none of	these
48. What will happen if s	static modifi <mark>er is remo</mark>	oved fro <mark>m the sign</mark> ature	e of the main method?
A. Compilation Error.B. RunTime Error: NoSu	chMothodError		
C. Program will compile		output.	
D. Program will compile		•	
49. Under what conditio	ns is an object's finali	ze() method invoked by	the garbage collector? A.
When it detects that	the object has beco	me unreachable.	
B. As soon as object is se			
C. At fixed intervalm it cl. D. None of the above.	hecks for null value.		
D. None of the above.			
50. Can constructor be in	nherited?		
A. True		B. False	
51. Under what conditio	ns is an object's finali	ze() method invoked by	the garbage collector?
A. Just before object			B. As soon as object is set as null.
C. At fixed intervalm	it checks for null valu	e.	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
                        B. 2
                                                C. 3
                                                                        D. 0
53. Which of the following is the correct syntax for suggesting the JVM performs garbage collection.
                                 B. System.setGarbageCollection ();
A. System.free ();
   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;
                                    c=a;
                                                            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.

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- 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.

Test(3)

```
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)
```



```
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;
 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?

    String s1 = "Java2";

 2. 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;
 e = new Employee("Denise", 36);
 e.calculatePay();
 System.out.println(e.printDetails());
```

}
}

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A. Line 7 C. Line 10 B. Line 8 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 C. Object Conversion D. none of the above 69. if we make constructors as static functions A. compile time error D. None of the above B. runtime error C. coding error 70. non static variables are for C. both 1 and 2 B. functions 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



```
A. 3,4
                                               C. compilation error
                                                                                   D. runtime error.
                       B. 4,3
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");
                 Shriram Mantri
                                   B. "1" is printed
A. compilation fails
                                                                                 C. "2" is printed
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;
   }
}
                                 ram Mantri
Public class Test
   Public static void main(String[] args)
   {
           Aa1 = null;
           Aa2 = 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
                                                                     D. none of the above
   A. Jit_compiler
                       B. javac_compiler
                                              C. byte_compiler
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

	1. Which of the follow	wing class all	lows Tcp Se	rver to wait	for client or	n a particula	r port?	
	A: InetAddress		B: ServerS	ocket	C: Socket		D: none of the	ne above
	2. One of the following	ng port range	e is valid fo	r Network p	rogramming	in java		
	A: 1 to 65535		B: 1023 to	65535		C: 1024 to	65535	D: 0 to 1023
	3. Which one is used	to send pacl	ket over the	e network in	case of UDF	?		
	A: DatagramPacket		B: Socket		C: Datagrai	mServer	D: Datagram	nSocket
	4. Which of the follow	wing is Appli	cation leve	l protocol?				
	A: FTP	B: HTTP		C: JRMP		D: all of th	e above	
	5. A is an en	dpoint for co	ommunicat	ion betweer	r two machi	nes.		
	A. ServerSocket	hrm	B. Socket	- / W / W	C. Datagrai	la vant de vant de la	D. Datagram	ıPacket
			UU II II		VUILU			
	6. Which of the follow	wing class all	lows UDP S	erver to wai	t for client o	n a particul	ar port?	
	A: InetAddress		B: Datagra					
	C: DatagramPacket		D: none of	f the above				
	-							
	7. One of the following	ng class is us	ed to repre	esent IP addr	ess of a mad	hine.		
	A: IPAddress		B: InetAdo		C: Internet		D: InternetP	acketAddress
	8. Which method is u	sed to wait i	for client to	get connec	ted in TCP?	A: accept		
	B: receive							
	C: wait	V /						
	D: socketWait							
	9. Which of the follow	wing is Appli	cation leve	l protocol?				
	A: TCP	B: HTTP		C: UDP		D: all of the	e above	
	10. The class which is u	used to send	I the packet	t in case of L	JDP is			
	A. Socket	B. UDPSock	ket	C. UserDat	agramPacke	et	D. UserDat	agramSocket
	11. The class which re	presents IP	address of	machine is				
A.	InternetAddress							
В.	IPAddress							
C.	InetAddress							
D.	none of the above							
12.	Which is Application la	ayer						
	HTTP	-						



D.	all of the above
	method is used to wait for client request in UDP
	Wait
	receive
	accept
υ.	none of these
	method is used to wait for client request in TCP
	Wait
	receive
	none of these
υ.	none of these
	If we want to pass an object over network it should implement
_	Runnable Serializable
В.	Cloneable none of these
C.	none of these
υ.	Tione of these
16.	class is used to make server wait for client request in TCP.
A.	Socket
В.	ServerSocket
C.	SocketInputStream
D.	none of these
	Valid range of port number for a java application is
_	0 to 65535
В.	1 to 65535
C.	1024 to 65535
υ.	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:

Object Oriented Programming with Java



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

