Object Oriented Programming with Java eDAC May 21

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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()

```
{
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.



11. jvm ls A. platform dependant	B. platform Indepedent	
A. boolean b=null; B. float f=1.3;	C. byte b=257; D. int i=	=10 ;
10. Which line out of the following will compile without a w	arning or an error?	
D. depends on the particular implementation of the Java Vii	rtual machine	
C. -255 to 256		
B. (-2 power 8)-1 to 2 power 8		
A128 to 127		
9. What is the size of a byte datatype?		
E. You can force garbage collection of an object by setting a	III reterences to that object to null.	
D. If certain precautions are not taken, the garbage collecto	-	1
C. The method gc, when executed from a method, runs garl	_	
B. The garbage collector is a low priority thread.		
Java provides automatic garbage collection.		
8. Which of the following statements is/ are true? A.		
E. private static void main(String args[])		
D. public static void main(String args[])		
C. public static void main(String arg[])		
B. public static int main(String arg[])		
7 Which of the following are the correct signatures for met A. public static void main()	mod main():	
7. Which of the following are the correct signatures for mot	thod main()?	
A. –Infinity C. NaN	D. –NaN	
System.out.println(-1 * Double.NEGAT VE_ NFINITY);		
6. When executed the following line of code will print		
	irilli	
D. Compilation error	aratui A	
C. Prints 10,28 and 46.	A	
B. Prints 24,68 and 112.		
A.Prints12,34"and56. * ~		
System.out.println(k);		
System.out.println(j);		
System.out:println(i);		
inti = 012; intj = 034; int k = 056; int l = 078;		
5. What will happen if you compile/ run this code?		
D. Pilits 25, 5, 25 dilu 25.		
C. Prints 5, 5, 5 and 23. D. Prints 23, 5, 23 and 23.		
B. Print s 23,6,5,2,3		
A. Compilation, error at line 3		
System.out.println(2 + 3 +"")-; sy	stem.out;println(2+""+3);	
System.out.printin(" " +2 + 3);		
4. What is the output for the following lines of code?		



C. depends on jvm implementation			D. Both b and c	
12. return type of r A. int	main method is B. char	C. void	D. None of the ab	oove
13. Garbage collect	ion works on			
A. heap	B. queue	C. tree	D. None of the a	bove
(i) { case O: System.out.prinUn(System.out.println("zero"); break; case "one"); case 2: Un("two"); default:		n the following code int i=	1; switch
} A. One	B. one, default	7 / C. o	ne,two,default	D. Default
member of Walmar A. the local variable C. the data member 16. void main() { int k=35,*z,*y; z=&k %d",k,++*z,*y++); }	e 's B. th r's D. N		e this would cause a comp	oiler error
A. 363637	В. 383837	C. 373737	D. none of these	
17. what is the outpoint fun (int i) { printf("in funtions in } void fun(int & i) { printf("in functions } main() { int i=9; fun(i)-; }	nt i"); int& i");			
A. ambiguity err	or B. in	functions int& i	C. in funtions int	i

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

AWT

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- A. ItemListener
- B. MouseListener
- C. KeyListener
- D. WindowListener

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

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

- B. FileDialog extends Dialog
- C. Dialog

extends Frame

D. Window extends Container



7. Given publ	lic class Tria	l extends Frai	me				
{	public Tria	(String mess)					
	{						
		MenuBar ml	b=new Me	nuBar();			
	}						
}	•						
How will u ad	d "mb" to t	he frame?					
A. addMenuB		B. setMenuB	Bar(mb);	C. mb.add	MenuBar(); D. add(mb);	
8. Which met	-	•		•			
A. getParame	eter	B. getInitPar	ameter C	. getApple	etParamete	er D. none of	these
the user's	computer a	er via HTTP, ii s an applicati				l on the user's comp	outer and run on
A. A Java app	-				B. A Java a	- A	
C. A Java Serv	100	DINTO	TIM	/ 30. / 10	None of the		
10. java.awt.0 this x and y sp		class method	getLocatio	on() returr	ns Point (co	ontaing x and y cordi	nate).What does
A. Specify the	e position o	f components	s lowe <mark>r-lef</mark> t	t compone	ent in the o	<mark>coordinate</mark> space of t	he component's
parent.			7 /				
B. Specify th	e position o	of component	s upper-le	ft compoi	nent in the	coordinate space o	f the
component's	parent.		/				
C. Specify the	e position o	f components	upper-lef	t compon	ent in the o	coordinate space of t	the screen. D.
None of the a	bove						
11. When u ir	voke "repa	int()", for <mark>a li</mark> g	ghtweight (componer	nt , the AW	T package calls whic	h component
method?					7 /		
A. repaint(()	В.	update()			C. paint()	D. draw()
12. Which of	the followir	ng the valid w	ay to embe	ed an appl	et class na	med myapplet into a	a web page.
A. <applet cla<="" td=""><td>ss=myapple</td><td>et.class width</td><td>=100 heigh</td><td>nt=100> <,</td><td>/applet></td><td></td><td></td></applet>	ss=myapple	et.class width	=100 heigh	nt=100> <,	/applet>		
B. <applet co<="" td=""><td>de=myapple</td><td>et width=100</td><td>height=10</td><td>0> <td>et></td><td></td><td></td></td></applet>	de=myapple	et width=100	height=10	0> <td>et></td> <td></td> <td></td>	et>		
			_			D. <applet param="</td"><td>myapplet.class</td></applet>	myapplet.class
)>			7 - 1-1-		7 - 17
		7 0 0 0 0 0					
13. What is th	• •			ie applet t	ag? A.		
A URL that po				· - C·I -			
B. A URL to th	= =		=	-			
C. Indicate th		• •			e is relative		
D. Defines the	e norizontal	spacing arou	nd the app	oiet.			
14. Executabl	e applet is r	nothing but	fi	le of apple	et.		
A. class		B. java		. html	D. applet		

- 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.

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

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

What will happen to the above code?

A. compiler error "can not set layout twice"

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

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

	CLONE REFL	ECTION API	
1) Cloneable interface contai		20110117111	
A. True	B. False		
A. Hue	D. I disc		
2) Clone method is declared	as throws		
A. IOException		B. CloneNotFoundExc	ception
C. CloneNotSupport	edException	D. None of the above	
3) Clone() method in Object	class is		
A. Protected	B. Public	C. Default	D.Private
4) If u override "clone()" met	hod u can apply access m	odifier	
	///	rotected or public	D. Default
SILI	LI WITH IV	IUIUI L	
5) By default "clone" method	does		
		/ /	
A. Shallow copy	B. Deep copy C. Shallow		D. None
Interface which does not cor	• 0		
	. Methodles <mark>s</mark>	C. Marker	D. Void
7) Inner class methods can a		s d <mark>irectly</mark>	
A. True	B. <mark>False</mark>		
8) Static nested class method	ds can a <mark>ccess out</mark> er class r	nembers directly	
A. True	B. False		
9) There is one instance of cl	ass <mark>"Class" pe</mark> r class loade	ed.	
A. True	B. False		
10) To instantiate a particula	r class through reflection	api we use	
A. New Class B. Cla	ss.newInstance	C. Class.newCreate	D. None of the above
	COLLECT	ION API	
1. One of the following throu	ws ConcurrentModificatio	nException if we try to m	odify while iterating over it.
A: Hashtable	В: Сору	OnWriteArrayList	
C: ArrayList	D: Cond	urrentHashMap	
2. The default capacity and I	oad factor for Map impler	nentations are	
A: 12 and 0.60	3: 16 and 0.75 C: 20 ar	nd 0.75 D: 18 and	1 0.60
2 Givon			



Class Ca	t extends Animal{}			
Void dis	p(List super Dog mylis	st)		
Which o	of the following is the wro	ng argument to disp	?	
A: Ar	rayList of Animal	B: Arra	yList of Dog	
C: Ar	rayList of Object	D: All t	he above are correct arg	guments.
4 \A/la:a	h atatawa ant in towa 2			
_	h statement is true?	en etal en len i	D. Para Oktober 201	alla de la della calda lest
	st will allow u to add i	nside list.	-	allow u to add inside list
C: bo	oth A and B		D: we can pass Array	List <integer> to List<object></object></integer>
	h collection class allows y whose methods are not sy	-	its size and provides ind	exed access to its elements,
A: java.	util.HashSet		B: java.util.LinkedHa	ashSet
C: java.ı			D: java.util.ArrayLis	
C M/lete	h af tha falla dan alam			
	h of the following class u			
a) Dictio	onary b) Array	c) ArrayList	d) Properties	A .
7 \A/bio	h of those class chicats u	ram	Aantri l	
	h of these class objects u			
a) Hasht	able b) Dictionary	c) Map	d) all if the mentioned	
8.	can be used to cont	rol the or <mark>der of cer</mark> ta	in data structure and co	llection of object too.
a) Serial		b) natur <mark>al compar</mark> ato		
-	mparators	- Y	f the <mark>above</mark>	
5, 55				
9. How	does the set collection de	eal w <mark>ith duplic</mark> ate ele	e <mark>ments?</mark>	
A. An ex	ception is thrown if you	att <mark>empt to a</mark> dd an ele	e <mark>ment wi</mark> th a duplicate v	alue
B. The a	add method returns false	if you attempt to ac	<mark>ld an ele</mark> ment with a du	plicate value
C A sat	may contain elements th	nat return dunlicate v	values from a call to the	aguals method
	cate values will cause an			equals method
10.		•	e ap or HashSet while addi	ng or rotrioving ontrios
	quals(), hashcode() B: 6	equals(), == , nashcoc	ie() C: nashcode() , =	= , equals() D: none of
these				
11.	If you try to invoke "r	emove()" method on	iterator of CopyOnWrite	eArrayList , it raises following
	exception			
	•	tion B: Unsupporte	dOperationException C:	IllegalOperationException
D: none	of these			
12.	Map implementation	which provides both	Thread-Safety as well as	s Concurrency.
	ncurrentHashMap	B: HashMap	C: HashTable	D: none of these
			21.112.211.10.00	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
13.	Stream API is used to			
A: In	ternal iteration	Е	3. External iteration	
C. Bo	th A and B		D. None of the abov	re



				V
14. A. True	In get () or put() of map i B. False	mplementation equ	als () is Called before ==	÷.
15. A. LinkedLi	Algorithms are present ir st B. Collection	nside. n C. Collections	D. Hashtal	ble
16. A. False	Iterator of ArrayList is Fa B. True	il-Safe.		
17. A. Runnabl C. Exter			implement	
18. A. True	When you add any objec B. F	t inside Collection A alse	PI implementation class	s, its copy is added.
19.A. Vector20.A. Hashing	Whenever we create any B. None of In map implementation v B. Hash Collis	these C when has <mark>hcode of</mark> tw	. List D. vo keys are same it is ca	
21. One of A. Compar	the following allows us to ator B. None of the		one strategies. C. Enumeration	D. Comparable
•	ot of list is created in case OnWriteArrayList	of B. Linked List	C. Arraylist	D. Vector
23. One of A. StringBu	the followings is not T <mark>hre</mark> Iffer B. Hashtable	ad Safe C. Vector	D. none	of these
order that	se that you would like to co is the same as the iteration cation of the Map interface p B	n order of an existir	ng instance of a Map. W	hich concrete
25.Which of Object?	class does not override the	e equals() and hashC	Code() methods, inheriti	ng them directly from class
A. java.	ang.String lang.StringBuffer		B. java.lar D. java.lar	ng.Double ng.Character
a.addElem	• •	_	es of code? Vector a = n	new Vector();
System.ou	t.println(a.elementAt(0)_)	;		
A. Prints 1	0.	B. Prints 1:	1.	
C. Compila	tion error at line 3.	D. Prints s	some garbage.	
0 27 Com	parablo is a			



A. interface	B. classes	C. Both 1 and 2	D.none of the above
Q.28 Arraylist is			
A. class		B. List implementa	tion
C. Both a and b		D. None of the abo	ve
Q.29 hash code is us	sed by		
A. set	B. map	C. both a & b	D. None of the above
Q.30 Which of the fo	ollowing data s	tructures implements FILO med	chanism
a) Queue	b) Hash	c) Linked List	d) Stack
Q.31 Which of the fo	ollowing stater	nents is true?	
a) Hashmap is threa			
b) Hashmap is threa	d-safe while H	lashMap is not	
c) Both are thread-s			A
d) Both are not three	ad-safe	ram Mar	ıtri 🛦
/		EXCEPTION	
1. Given Following co	ode: import i		
sub extends base	oder imports	avano. , class	
{			
	void disp()t	hrows IOException	
	{		
	}		
}			
class base			
{	V /		
	void disp()t	hrows Exception	
	{		
_	}		
}			
public class myclass			
{	نغمغم مناطييم	a valid manin/Chrime a man[1]	
	r public stati	c void main(String args[])	
	1	try	
		base b=new sub();	b.disp();
		}	b.uisp(),
		catch(Exception ee)	
		{	
		System.out.println	(ee);
		}	,
		System.out.println("done");	
	}	,	
}			



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A. warning "done"	B. compilation error	C. runtime error	D. output
2. Which statement is false from A. we can have try and finally B. finally gets executed irrespect.C. if system.exit is called from a none of the above	y without catch ctive whether exception is re		D.
Class.forName requires which A. ClassCastException C. IllegalAccessException	h of the following exception B. ClassNotFour		
4. Class.newInstance() requires A. IOException C. IllegalAccessException	which of the following exce B. ClassNotFoun	•	
5. Imagine there are two excep Given these two definitions: class First { void for the second content of t	tion classes Exception1 and test()throws Exception1,Exc	antri	n the Exception class.
} class Second extends First { void f	test()		
} Now define a class "Third" define a class "Third" define a class "Third's test() A. Exception1 C. No checked e	method throw?	B. Excepti	

6. What letters get written to the standard output with the following code? public class MyClass { public static void main(String args[])

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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 throwlt()
    {
        throw new Exception();
    }
    public static void main(String[] args)
```

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1.

2. 3.

4.

5.

6.

{

}

{

}

{



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

public static void main(String args[])



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

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```
}
  }
A. The program won't run because argument of main is not properly mentioned
B. The program will throw a NullPointerException
C. The program will display Zero when executed
D. The program will display 0 arguments when executed
  16. following program will not print "==" public class test12
                         Public static void main(String args{})
                                                String first="abc";
                                                String second=new String(first);
                                                If(first==second)
                                                           System.out.println("==");
                   Shriram 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
                                     D. Don't need to specify anything
  C. new Exception
  18. What is the result of executing the following code, using the parameters 4 and 0:
  public void divide(int a, int b)
       try
   {
  int c = a / b;
     catch (Exception e)
       System.out.print("Exception ");
     } finally
      System.out.println("Finally");
  A. Prints out: Exception Finally
                                                           B. Prints out: Finally
  C. Prints out: Exception
                                                           D. No output
  19. Given public class MyClass
  {
```

public static void main(String args[])

String s2=new String("hello");

String s1="hello";

String s3="hello";

{

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

26. One of the following is unchecked exception

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A. IOException

 $B.\ Class Not Found Exception$

C. FileNotFoundException

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

B. Exception

A. Error

D. None of the above

27. Which one is checke	ed exception		
A. ClassCastException the above	B. MalformedURLExcep	tion C. ArrayIndexOutOfBo	undsException D. None of
28. In order to declare e	exception which keyword is	used	
A. Throw	B. Throws	C. Throwing	D. None of the Above
29. when an exception h	happens in the finally block	it should be	
A. It should be thrown b	by using throws.	B. We should catch	it
C. Depends on scenario		D. None of the abov	ve.
30. Checked exceptions	are automatically propaga	ted to the caller.	
A. True	В. F	alse	X.
CI	LO TATTACETOS	Maratrai	
31. Unchecked exceptio	ons are automatically propa	gated to the caller.	
A. True		B. False	
32. If u want to create c	hecked exception as user c	lefined exception u need to	extend
A. RuntimeException	B. Thr <mark>owable</mark>	C. Exception	D. Error
33 When II write one tr	y and multiple catch the m	ost specific catch should are	ecede the most generic catcl
A. True		alse	ecede the most generic catci
7.1. 1.00			
34.			
class exception_handlin	g		
{	V /		
public static void main(S	S1ring argsO)		
{			
try			
{			
System.out.print("Hello } finally	" + " " + 1IO) ;		
{			
System.out.print("World	d"):		
}	- <i>/</i> /		
}			
}			
A. Hello		B. World	
C. Compilation Error		D. First Exception t	hen World

C. Both a and b

D. None of the above.

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FILE HANDLING

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

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A. returns null B. "" -1

C. throws java.io.EOFException - correct ans

D. closes automatically

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);
```

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

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

11. Which one is wrong statement?
A: FileInputStream fis=new FileInputStream("abc.txt");
B: DataOutputStream dis=new DataOutputStream(new FileOutputStream("xyz.txt"));
C: FileOutputStream fos=new FileOutputStream(new File("aaa.txt"));
D: FileOutputStream fos=new FileOutputStream(new ObjectOutputStream("aaa.txt"));
12. Which statement is correct?
A: Externalizable is a base interface of Serializable
B: String class is final hence cannot be serialized
C: When a class implements Serializable and it is deserialized using readObject(), constructor is never
invoked.
D: Externalizable is a marker interface.
13. Given
class base
int k; Shriram Mantri
}
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
A. The D. Stream C. directory D. Holle of the above
16. InputStream and OutputStream are concrete classes
A. True B. false
17. if u want to write primitive types u need to use
A. DataoutputStream B. FileOutputStream
C. OutputStream D. ObjectOutputStream
18 class allows us to write and read both.
A. FileReaderWriter B. RandomAccessFile



C. BufferedWriter	D. n	one of the above	
19. Serializable extends E	xternalizable		
A. True	B. false		
20. Serializable is marker	interface.		
A. True	B. false		
21. In case of Serializable	when u deserialize an obj	ect constructor does not get invoked.	
A. True	B. false		
22. While deserialization	if serialversionUID does n	ot match we get	
A. IllegalClassException	B. Ir	ivalid Class Exception	
C. NullPointerException	D. n	one of the above	
23. Which is correct			
A. FileOutputStream fos	new FileOutputStream(ol	oject to be added);	:new
	"filename"); oos.writeObj	ect();/antri	
B. FileOutputStream fos-	=new FileOutputStre <mark>am("f</mark>	ilename"):	
		n(object to be added); oos.writeObject();	
C. FileOutputStream fos	=new FileOutpu <mark>tStream(</mark> "	filename <mark>"); ObjectOutputStream oos=new</mark>	
ObjectOutputStream(fos); oos.write <mark>Object(o</mark> bj	ect to be added);	
D. none of the above			
24. File class is used to c	reate new file		
A. True	B. false		
	ıble when u deserialize an	object first readExternal() is called and then o	constructor
is called. A. True	B. false		
26. In order to serialize i	nner class, outer class mu	st be Serializable	
A. True	B. false		
27. If inner class implem	ents Externalizable we do B. false	n't get any problem while deserialization	A. True
28. If static nested class A. True	implements Externalizable B. false	e we don't get any problem while deserializat	ion
29. Java.lang.Object clas	s implements Serializable		
A. True	B. false		
30. transient variables m A. inheritance B. Associa	nake sense I n context tion C. Serialization D. N	one of the above	

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A.

31. Which of these classes are	used by character streams fo	r input and output operations?
A. InputStream B. Writer	C. ReadStream	D. InputOutputStream
32. FileWriter fw =new FileWri A. Text based io B. bin	iter("a.xyz"); in this code, we ary based 10 C. both a and	
A. Text based to D. Bill	ary based 10 C. both a and	a b. Holle of the above.
	GENERICS	S
•	ompiler removes all the inforr ic-Erasure C. Type-Erasure	mation about generics. This is known as D.none of the above
2. <p extends="" q=""> here Q can be</p>	e either class or interface	
A. True	B. false	
3. We can't have generic method	od in non-generic class	
A. True	B. false	- A
4. Polymorphism applies to bas		antri 🛦
A. True	B. false	
5. Mixing generic and non-gene	erics can be <mark>risky</mark>	
A. True	B. false	
6. If the base class reference re	ferring to sub class array ther	there is a possibility of
A. IllegalArrayException	B. ArrayStore	
C. NullPointerException	D. none of the	e above
7. In case of Extends w	e can add	
A. True	B. false	
8. In case of super we of	can add	
A. True	B.false	
9. List Super Thread mylist=	new Arraylist <ohiect>() wil</ohiect>	l work
A. Yes	B. no	WOTK
10 List <2 Super Dogs mulist-n	ou Arroulist Animals () muli	ist add(now Cat()), will work
10. List <? Super Dog> mylist=nA. Yes	B. no	ist.add(new Cat()); will work
11. List allows u to add		
A. True	B. false	
12. List <object> allows u to add</object>	d	
A. True	B. false	

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INHERITANCE

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



```
}
}
public class sub extends base
public static void main (String argv [] )
base b = new base(); b.disp
();
}
}
A: runtime error
B: compiler error "final method must be inside final class"
C: compiler error "a class having final method can not be inherited"
D: neither compilation nor runtime error
3. what will be the output? class
base
                     hriram Mantri
{
  {
           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.
```

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7. Why multiple inheritance is not available in java?

A. It leads to confusion for a Java program

class sub extends base

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

D.All of

```
8. what is the output? class base
}
class sub1 extends base
{
}
class sub2 extends sub1
{
}
class sub3 extends sub2
{
public class test12
  public static void main(String args[])
          sub1 s=new sub2();
                                           base b=s;
          if(b instanceof base)
                     System.out.println("base");
           if(b instanceof sub1)
                     System.out.println("sub1");
           if(b instanceof sub2)
           {
                     System.out.println("sub2");
          if(b instanceof sub3)
          {
                     System.out.println("sub3");
          }
  }
  A. base
                     B. sub3
                                           C. sub1
                                                                D. sub2
9. Given the following code, what can be said about the statement s=(sub)b? class base
{
```

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```
{
}
public class test12
   public static void main(String args[])
 base b=new base(); sub s=new sub();
           s=(sub)b;
  }
}
A. legal at compile time but illegal at runtime
B. illegal at compile time
C. legal at compile and runtime ,but (sub) cast is not needed D. legal at compile and runtime ,but (sub)
  cast is strictly needed.
10. What will happen when you attempt to compile or run this code? class Base
public final void amethod ()
                                ram 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;

double d;

class Baz extends Foo

Bar thing=new Bar();

}



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



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



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



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

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

31 <default> is more accessible than protected.

34



A. True		B. False		
32. Final keyword can	be applied to			
A. Instance member	B. Class va	riable C. Local v	/ariable	D. All of the above
33. In java we can appl A. True	y static modifier for loo B. False	cal variable.		
34. In order to make a A. Apply abstract keys C. Both a and b			e abstract me of the above	ethod inside class
35. In order to check "A. Is-a	is-a" relationship, we u B. Instanceof	se following operator C. Is_relationship	D. None of	f the above
36. If we try to cast the A. BadCastException C. ClassCastException	e classes out of hierarch	B. OutOfHierarchyEx		
A. It gives compiler err	riding function, if we cloor for ally removes the argun	B. It give	s runtime erro omes overloa	
38. Will following code	work? Class MyClass e	extends String{}		
A. An abstract class mad B. A final class may no C. Every class must have D. The mandatory elem	ot have any <mark>abstract</mark> mo	ethods. ethods. age, import and class.		
40. super call should a	always be			
A. main function	B.in the super class	C. in the subclass.	D.None of	the above
41. extends keyword c A. Interface	an be used with B. class	C. both	D. None of	f the above
42. final keyword for c A. no overriding	lass in java means B. no overloading	C. Both a & b	D.none of	the above
43. interfaces in java i	s for			
A. contract	B. abstraction	C. both a and b	D. None of	f the above
45. The job that is dor	ne by the thread is deci	ded by		

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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					
Α					
{					
int i;					
void display()					
{					
System.out.println(i);					
}					
) 1					
)					
class B extends A { int j					
void display() { System.	.out.println(j));				
}	7 0	78 //	. • 🛦		
}	hriram	1 VIani	7.7		
		LIVILUIUU			
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 Error		
48. interface Z extend	s Δ here Δ is				
A. class	B. function	C. interface	D. none of the above	.	
A. Class	b. fullction	C. IIIterrace	D. Holle of the above	•	
40 Hayraana anarm	e that a class will not be	inhouted from 2			
			is an final		
A. Delare it as constan	IL	B. Declare			
C. Declare it as static		D. None of	the above		
50 L C					
	w SubclassObject(),canr				
A. Non final functions	•		B. Final functions of super class		
C. Exclusive functions	of sub class	D. None of	the above.		
O F1 W/h out = 1222222		ando oo ik waxak aana dala	haha da		
· -	class implements an int	· · · · · · · · · · · · · · · · · · ·			
A.Two methods define			B. Only certain methods in an interface		
C. Any methods in a cla	ass.	D. All meti	nods defined in that interface.		
52 Which modifier we	ould he used to limit the	methods visibility to o	nly the ot the current oackaae and	lle h	
JE. VVIIICH HIDUHEL WC	vara be asea to minit the	z memous visibility to 0	ing the of the culterit backage all	a an	

subclasses.

36



A. public		B. private	C. prote	cted	D. default
53. The va A. Public	ariables in a	an interface can ha B. Static	ve which modifi	ers? C. Final	D. All of the above
	-	ther two reference	-	-	5 (1)
A. == ope	erator	B. equals function	on C. we c	an use both	D. none of the above.
55. non fi	nal functio	ns have to be			
A. overrid	lden	B. may be overr	idden	C. ABoth a and b	D. None of the above
56. What class A		ut of this program?	,		
{					
	Public in Private ii				547
} Class B {	extends A	Shrira	m N	Iantri J	
·	Void disp				
	{				
		super.j = super.i		"	
	}	System.out.prin	tin(supper.i +	+ supper.j);	
}	,				
	class inh {	eritance			
		public stati <mark>c voic</mark> {	d main (String a	rgs[])	
		B obj = new B	();		
obi i=3		j.i=1;			
obj.j=2	' ,	obi.o	display();		
		}	1 ///		
	}				
A. 22		B. 33	C. Runti	ime Error	D. Compilation Error
57. A class				ant the class to be subo	
A. protect	_ , ted, interfa		nal, interface	•	D. final, protected
		t statement	lad tima nalum	ornhism	
		ling is called compi ing is called runtime		-	
	is correct	=	- ₁ ,		
D. Both [A	and [B] a	re 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 = 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();
```

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

JAVA FX

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

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



MULTITHREADING

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

6. Which of the following statements is true?

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A: A static method cannot be synchronized

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

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

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

<pre>7. Given public class TestOne { public static void main (String[] ar Thread.sleep(3000); System.out.println("sleep"); } }</pre>	gs) {	
A: No error, prints sleep	B: Compilation error	
C: Runtime Error	D: No error & no output	
8. Which of the following are me	ethods of the Runnable interface?	
A: run B: start		stop
9. While using Thread, which is in	ncorrect Mantr	<i>i</i>
A. u invoke run()	B. u i <mark>nvoke st</mark> art()	
C. u implement Runnable	D. u extend Thread	
Thread t=new Thread(targetOk A. targetObject instanceof Thread C. targetObject instanceof Object	B. target <mark>Object ins</mark> tanceo	f Applet t instanceof Runnable
12 means each me	thod in multithreaded environment doe	sn't access data by multiple
threads at the same time.		
A. Thread detach	B. thread isolation	y D. thread lock
13. Which of the following starts to A. System class B. main model 14. Which two can be used to creat the and a second se	ate a new Thread? override the run method. override the start method. d implement the run method.	ram? D. none of these
15. What is the use of the synchro	onized keyword?	
	arallel but to communicate with each oth	her

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

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

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

2.

public static void main(String [] args) {

MyThread t = new MyThread();



5. Thread a	x = new Thread(t); 6	. x.start(); 7. }			
9.	public void run() {				
10.	for(int i=0;i<3;++i) {				
11.	System.out.print(i	- "");			
12.	} 13. }				
14. }					
A. Compila	tion fails.	B. 123		C. 0123	D.012
19. In case A. False	of class lock, non-st	atic synchroniz	ed methods B. true	come into picture.	
20. Sleep ro A. True	eleases the lock whe	reas wait does	not. B. False		
	s the effect of issuing	• • • • • • • • • • • • • • • • • • • •		•	
	fy() method has alre		-		
	11/-11 11/*	H H / " H . H . H / All.	C. 40	ther object sends a	notify() or notifyAll() method
	eption will be raised			ly synchronized with	any other objects using the
_	g object.	wait() will be	automatical	ry syncinomized with	Tany other objects using the
	the following methorable state.	od has to b <mark>e inv</mark>	voked by the	programmer in ord	er to bring thread from born
A: start	B: sleep		C: join	D: run	
	of the following is th		ement		
•	not notify a particul				
-	nized keyword can b	J			
all of the a	ify methods can be on be on be on the one of	called only from	n synchroniz	ea methods or bloc	к D:
24. Select t	he correct statemer	nt:			
A. in case of released	· · · · · · · · · · · · · · · · · · ·	en exception is	raised in a s	synchronized code,	lock is automatically
B. in case of	of Reentrant lock, wh	nen exception	is raised lock	is automatically rel	eased.
C. Both A a	ınd B.				
D. None of	these.				
25. Thread	s are lightweight as o	compare to pro	ocesses		
A. True			B. false		
26. The me	ethod used to registe	er thread with	JVM schedul	er	
A. urn	B. regis	ster	C. start	D. none	e of the above
-	ult the priority of th				
A. Minimu	m B. maxi	mum	C. normal	D. none	e of the above



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



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

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C.main method



D.None of the above

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

B.start method

A. run method

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

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

D. none of the above

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

else

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

long [] fix(long [] a3)



```
a3[1] = 7'; return a3;
}
A: 1215
                       B: 1515
                                               C: 3 4 5 3 7 5
                                                                       D: 375375
13. What is the result of the following code? import java.util.*; enum
Animals
{
DOG("woof"), CAT("meow"), FISH("burble");
String sound;
Animals(String s) { sound = s; }
}
public class test11 { static Animals a; public static void main(String [] args) {
System.out.println(a.DOG.sound + " " + a.FISH.sound);
}
}
A: Multiple compilation errors
B: woof burble
B: 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
```

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				V	
17. Which of the follow	=		o atliat	D. List	
A. Thread	B. Collection	C. ADST	C. AbstractList		
18. To provide access to is used?	to members of the c	class to another class in d	lifferent package wh	nich access specifier	
A. Public	B. protected	C. private	D. no modifier		
19. Which of these me	ethods is rounding fu	unction of Math class?			
A. max()	B. min()	C. abs()	D. all of the abo	ve	
20. In java System.out	is an object of type				
A. InputStream	B. PrintStream	C. OutputStream	D. BufferedInpu	utStream	
A. It can extend exact!B. It can extend exact!C. It can extend exact!	ly one class and impl ly one class and can ly one class or imple	pported by an Anonymo lement exactly one inter implement multiple inte ement exactly one interf gardless of whether it als	face rfaces face	orts?	
22. Which string instar a="BUTTERfly" an		eturn true when invoked	l liked this: a.metho	od(b) where	
a) equalsIgnoreCase()	b) toU	pperCase() c) toLow	<mark>verCase() </mark>	quals()	
constructor of the s B. this() constructor is constructor of the sub C. this() constructor is constructor of the s	estate of an object olicate classes ence between this() are is invoked within a sub class. In class. In class invoked within a model of class. In sub class.	B. Deter D. Dete	super() constructor uper() constructor is	used within the is invoked within the invoked outside the	
the constructor of the			, , , , , , , , , , , , , , , , , , ,		
	nain(String args[]) ew StringBuffer("Andew Str	urag");			

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



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

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of

					Value and a
c) str1 and str3 are ==	=				
str1 and str3 are not e	equals				
d) compilation error					
27. Select a wrong sta	tement about native n	nethod.			
A. Native method can	be static B. Native m	ethod can be	abstract		
C. Native method o	an be non-static	D. Native m	ethod can be synd	chronized	
28. Constructor is the a class.	class that does not pro	ovide informat	ion about, and ac	cess to, a single	e constructor of
A. True	B. False				
29. A class cannot be l	ooth abstract and final				
A. True	B.False				
20. String s1-"hallo".	String c2-"hallo", whic	بالنبيد ممم ما	ina triio	777	
30. String s1="hello";	77 0	in one will reti		- A	
A. s1==s2	B. s1.equals(s2)	n IVI	C. both a and b		
32. What is the correc	t ordering for the impo	ort, class and p	oackage declaration	<mark>n w</mark> hen found	in a single file?
A. package, import, cl	lass	B. class, im	port, package		
C. import, package, cla	ass	D. package,	class, import		
33. When native meth	od resolution fails we	get			
A. NativeResolution	nFailedException		B. NullPointerExc	eption	
C. UnsatisfiedLink	Error		D. None of these		
	statement a <mark>bout Func</mark> ain default <mark>or static m</mark> e		e. A.		
B. It should contain o	nly one abstract meth	od.			
C. It should contain m	ore than one abstract	methods.			
D. None of these.					
35. Which operation is	s allowed on String cla	SS			
A. +	В		C. &		D. &&
36. Using reflection u	can				
A. Access private field	s B. Acces	s private meth	ods C. Bot	th a and b	D. None
07.155					
37. JRE contains		_			
A. Jvm B. jars	C. dlls	D.	all of the above		
38. Main() function is	invoked by				
A. Programmer	B. class_loader	C. jvm	D. none of the	e above	
39 Address of next ex	_	stored inside			_
A. method_area	B. stack		C. heap	D. PC_Re	egister



40. Method area stores	information about		
A. Class_bytecode	ytecode B. static_variables C. method_names D. all of the above		
41. In java objects are o	created on		
A. Stack	B. heap	C. both A & B	D.none of the above
42 Which of the follow	_	e? ain accepts String[]	D. All of the above
43. According to the neA. Double44. By-default value for	B. float	C. String	char following type is also allowed D. none of the above
A. false	B. 0	C. null	D.none of these
45. In java by default meA. static46. Just before object ge	B. virtual	C. final	D.all of the above
A. finalize() B. gc(7 /	
 47. In java the rule is A. member variable mu C. both a and b 48. What will happen if A. Compilation Error. B. RunTime Error: NoSu C. Program will compile D. Program will compile 	static modifier is remode. uchMethodError. e and run without any of and run to show the residual controls.	D. none of	e of the main method?
When it detects that B. As soon as object is s C. At fixed intervalm it of D. None of the above.	t the object has becoret as null.	•	y the garbage collector? A.
50. Can constructor be i A. True	nherited?	B. False	
•	ons is an object's finalize t gets garbage collecte n it checks for null valu	ed.	y the garbage collector? B. As soon as object is set as null. D. None of the above.
52. What is the output? public class test10 {			

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

Select the one correct answer

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



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

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



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

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```
maxElements = i;
 System.out.println(maxElements);
 }
 public static void main(String[] args)
 \{ Q21 a = new Q21(); \}
 Q21 b = new Q21(999);
 }
 }
 A. Prints 100 and 999.
 B. Prints 999 and 100.
 C. Compilation error at line 3, variable maxElements was not initialized.
 D. Compilation error while calling parameterized constructor
 62. What will happen if you invoke the following method? public
 void check()
 {
 System.out.println(Math.min(-0.0,+0.0));
 System.out.println(Math.max(-0.0,+0.0));
 System.out.println(Math.min(-0.0,+0.0) == Math.max(0.0,+0.0));
 }
 A. prints -0.0, +0.0 and false.
                                                           B. prints -0.0, +0.0 and true.
 C. prints 0.0, 0.0 and false
                                                            D. prints 0.0, 0.0 and true
 63. What will be the output of the followingicode?
 1. String s1 = "Java2";
 String s2 = "Java2";
 3. if (s1 == s2)
 4. System.out.println("We are twins");
 5. else
 System.out.println("We are not twins");
 A. We are twins
 B. We are not twins
 C. The program will not compile.
 D. The program will compile, but will produce a run-time error.
64. In the following code, which is the earliest statement, where the object originally held in e, may be
 garbage collected: public class Test { public static void main (String'a"Fg§[]){ Employee e =_new
 Employee("Bob", 48); e.calculatePay();
 System.out.println(e.printDetails()); _ e
 = null;
 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 B. runtime error D. None of the above C. coding error 70. non static variables are for B. functions C. both 1 and 2 D. none of the above A. objects 71. class Α { int I; public void m1() System.out.println("value of i is" + i); public class Code1 public static void main(StringO args) { A obj = new A(); A obj1 = new A(); obj.I = 3; obj1. i=4; System.out.prIntln{obj1.i +·" + obj.I); } this program will print



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



```
}
A. false true
                        B. false false
                                                             C. true false
                                                                                     D. true true
77. Determine output
   public class Test
            public static void main(String args[])
                        String str = null;
                        if (str.length() = = 0)
                                    System.out.print("1");
                        } else if (str == null)
                        { System.out.print("2");
                        } else {
                                    System.out.print("3");
                                    B. "1" is printed
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;
   }
}
Public class Test
                                ram Mantri
   Public static void main(String[] args)
   {
           A a1 = null;
           A a2 = new A();
  }
}
                                                                     C. Never
A. Program will not compile
                                              B. 1
                                                                                            D. 4
83. What is the super class of integer?
A. Object
                       B. Numeric
                                                         C. Number
                                                                                            D. Short
84. What is the name of the concept by which I can assign an int directly to an Integer?
A. Casting
B. Auto Assignment C.
  Auto boxing
D. It is not possible. Primitive type cannot be assigned to objects
85. Compiler which converts bytecode to native code is
                                                                     D. none of the above
                                              C. byte_compiler
   A. Jit compiler
                       B. javac_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	ows Tcp Se	rver to wait	for client or	n a particula	ır port?	
	A: InetAddress		B: ServerS	ocket	C: Socket		D: none of t	the above
	2. One of the following	ng port rang	e is valid foi	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: Datagra	mServer	D: Datagrar	nSocket
	4. Which of the follow	wing is Appli	cation level	protocol?				
	A: FTP	B: HTTP		C: JRMP		D: all of th	e above	
	5. A is an en A. ServerSocket	dpoint for co	ommunicat B. Socket	a / /	n two machi C. Datagrai		D. Datagrar	nPacket
	6. Which of the follow	wing class all			t for client o	n a particul	ar port?	
	A: InetAddress		B: Datagra	mSocket				
	C: DatagramPacket		D: none of	the above				
	7. One of the following A: IPAddress	ng class is us	ed to repre B: InetAdd		c: Internet		D: Internet	PacketAddress
	8. Which method is u	sed to wait	for client to	get connec	ted in TCP?	A: accept		
	C: wait	W /					A	
	D: socketWait							
	9. Which of the follow	wing is Appli	cation level	protocol?				
	A: TCP	B: HTTP		C: UDP		D: all of the	e above	
	10. The class which is u	used to send	the packet	: in case of l	JDP is			
	A. Socket	B. UDPSock	ket	C. UserDat	agramPacke:	et	D. UserDa	tagramSocket
	11. The class which re	presents IP	address of r	machine is				
A.	InternetAddress							
В.	IPAddress							
C.	InetAddress							
D.	none of the above							
12.	. Which is Application la	ayer						
A.	HTTP							

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

break; case 1:

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

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

