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```
BASIC
1. What is the output of the following code?
inti = 16; intj = 17;
System.out.println("i >> 1 = " + (i >> 1)); System.out.println("j >> 1 = " + (j >> 1));
A. Prints "i >> 1 = 8"
"j » 1 = 8"
B. Prints "i >> 1 = 7" "j » 1 = 7"
C. Prints "i >> 1 = 8"
>> 1 = 9"
D. Prints "i >> 1 = 7"
"j >> 1 = 8"
2. What is the output of the following code?
int i = 45678; int j = -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.
```

4. What is the output for the following lines of code?





	I d DHC I CD 2	20 jiivii i ceimolog	103 1	V
System.out.printin(" "	•			
		println(2 + 3 +"")-;	em.out;println(2+""+3);	
A. Compilation, error at	t line 3			
B. Print s 23,6,5 ,2,3				
C. Prints 5, 5, 5 and 23.				
D. Prints 23, 5, 23 and	23.			
5. What will happen if	you compile/ rur	n this code?		
inti = 012; intj = 034; ir	nt k = 056; int l =	078;		
System.out:println(i);				
System.out.println(j);				
<pre>System.out.println(k);</pre>				
A.Prints12,34"and56. *	* ~			
B. Prints 24,68 and 112	2.			
C. Prints 10,28 and 46.				
D. Compilation error				
6. When executed the	following line of	code will print		
System.out.println(-1 *	_	•		
A. –Infinity	B. Infinity	C. NaN	D. –NaN	
7 Which of the follow	ing are the corre	ct signatures for metho	od main()?	
A. public static void m	ain()			
B. public static int mair				
C. public static void m	ain(String arg[])			
D. public static void m	ain(String args[]			
E. private static void m	ain(String args[])			
8. Which of the followi	ing statements is	/ are true?		
A. Java provides autor	_			
B. The garbage collect				
C. The method gc, who		•	ge collector.	
_		_	nay collect some objects	still in use.
E. You can force garba	ge collection of a	an object by setting all	references to that object	to null.
9. What is the size of a	byte datatype?			
A128 to 127	зусованасуро.			
B. (-2 power 8)-1 to 2	power 8			
C. -255 to 256				
	ticular implemen	tation of the Java Virtu	ial machine	
40 1441: 1 1:		91 91 4		
	_	compile without a war	=	5 40
A. boolean b=null;	B. 10	oat f=1.3;	C. byte b=257;	D. int i=10;
11. jvm ls				
A. platform dependan	t		B. platform Indep	edent
C. depends on jvm imp	lementation		D. Both b and c	
10 motume time = -f	n no otherd:-			
return type of maiint	n method is B. char	C. void	D. None of the ab	NOVE

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13. Garbage collection works on C. tree D. None of the above A. heap B. queue 14. What will be printed out if you attempt to compile and run the following code int i=1; switch (i) { case O: System.out.prinUn("zero"); break; case 1: System.out.println("one"); case 2: System.out.prinUn("two"); default: System.out.println("default"); } A. One B. one, default C. one, two, default D. Default 15. If a local variables of a method shop() belonging to a class called Walmart has the same name as a data member of Walmart, which value is used when shop() is executing? A. the local variable's B. the class variable's C. the data member's D. None of the above since this would cause a compiler error 16. void main() int k=35,*z,*y; z=&k; y=z *z =++*y; k++; printf("%d %d",k,++*z,*y++); } C. 373737 D. none of these A. 363637 B. 383837 17. what is the output of the following c program: int fun (int i) printf("in funtions int i"); void fun(int & i) printf("in functions int& i"); main() int i=9; fun(i)-; } A. ambiguity error B. in functions int& i C. in funtions int i D. syntax error E. runtime error 18. what will be the output of the following program? void main() char *s="12345s\n\t"; printf("%d",sizeof(s)+str|en(s)); }

C. 12

D. 10

A. 17

B. 14

E. 7





```
19. char *f()
char *s=(char*)ma||oc(8);
strcpy(s, "goodbye");
return 5;
}
void main()
char *f();
printf("%c", *f()='z');
}
                                                                                           E.Z
  A. goodbye
                       B. zoodbye
                                               C.g
                                                                     D. 10
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);
}
                                  B. 1110001100000000
  A. 000000000010111
  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
  A. equal
                                                                     C. compile time errortype mis-match
                       E. compile time error |value required
  D. runtime
                                                 AWT
1. Adapter class is not available for
  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"

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```
3. Given public class MyApp2 extends Applet
                 @Override
           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
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
                                                         D. Window extends Container
  C. Dialog extends Frame
7. Given public class Trial extends Frame
              public Trial(String mess)
                         MenuBar mb=new MenuBar();
                         // here
             }
How will u add "mb" to the frame?
  A. addMenuBar(mb);
                                                         C. mb.addMenuBar();
                                                                                           D. add(mb);
                                  B. setMenuBar(mb);
8. Which method is required to read parameters pass to Applet?
  A. getParameter
                                  B. getInitParameter C. getAppletParameter
                                                                                        D. none of these
9. What is sent to the user via HTTP, invoked using the HTTP protocol on the user's computer and run on
```

9. What is sent to the user via HTTP, invoked using the HTTP protocol on the user's computer and run on the user's computer as an application?

A. A Java application

B. A Java applet

C. A Java Servlet D. None of the above

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10. java.awt.Component class method getLocation() returns Point (containg x and y cordinate). What does this x and y specify

A. Specify the position of components lower-left component in the coordinate space of the component's parent.

- B. Specify the position of components upper-left component in the coordinate space of the component's parent.
- C. Specify the position of components upper-left component in the coordinate space of the screen.
- D. None of the above

11. When u invoke "repa	aint()", for a lightweight compone	nt , the AWT package calls which	ch component
method?			
A. repaint()	B. update()	C. paint()	D. draw()

12. Which of the following the valid way to embed an applet class named myapplet into a web page.

- A. <applet class=myapplet.class width=100 height=100> </applet>
- B. <applet code=myapplet width=100 height=100> </applet>
- C. <applet code=myapplet.class height=100 width=100 > </applet>
- D. <applet param=myapplet.class width=100 height=100> </applet>
- 13. What is the purpose of "code" attribute of the applet tag?
- A. A URL that points to the class of the applet.
- B. A URL to the applet when it is stored in jar or zip file.
- C. Indicate the base URL of the applet if the code attribute is relative.
- D. Defines the horizontal spacing around the applet.
- 14. Executable applet is nothing but _____ file of applet.A. classB. javaC. htmlD. 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.
- 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()

C. setSMenuBar()

D. setMenuBar()

- 18. Select wrong statement from the following
- A. FlowLayout is the default layout for Applet.
- B. By default Frame is invisible.
- C. pack() method displays window in a preferred size
- D. None of these.

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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" B. frame will be displayed with only one "cancel" button C. frame will be displayed with two buttons. D. exception during runtime. **CLONE REFLECTION API** 1) Cloneable interface contains "clone()" method A. True B. False 2) Clone method is declared as throws A. IOException B. CloneNotFoundException C. CloneNotSupportedException 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()" method u can apply access modifier A. Protected B. Public C. protected or public D. Default 5) By default "clone" method does A. Shallow copy B. Deep copy C. Shallow and deep both copies D. None 6) Interface which does not contain any method is called as

C. Marker

A. Empty

B. Methodless

D. Void

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Α.	7) Inner class methods can access outer class A. True B. False 8) Static nested class methods can access out True		·	ly		
Α.	9) There is one instance of class "Class" per cl True	lass loaded. B. False				
	10) To instantiate a particular class through re A. New Class B. Class.newInstance	eflection api	we use C. Class.nev	wCreate	D. None of the above	
	CO	LLECTIO	ΝΔΡΙ			
	 One of the following throws ConcurrentMo Hashtable ArrayList 	odificationEx B: CopyOn		ist	odify while iterating over i	t.
	2. The default capacity and load factor for Ma A: 12 and 0.60 B: 16 and 0.75	ap implemei C: 20 and (D: 18 and	0.60	
	3. Given Class Animal{void eat(){}} Class Dog extends Animal{} Class Cat extends Animal{} Void disp(List super Dog mylist) Which of the following is the wrong argument A: ArrayList of Animal C: ArrayList of Object	B: ArrayLis	t of Dog above are co	orrect argur	nents.	
	4. Which statement is true?A: List<? > will allow u to add inside list.C: both A and B		D: we can p	ass ArrayLis	low u to add inside list st <integer> to List<object< th=""><th></th></object<></integer>	
	5. Which collection class allows you to grow of but whose methods are not synchronized?A: java.util.HashSetC: java.util.List	or shrink its	size and pro B: java.util. D: java.util	LinkedHash		,
	6. Which of the following class uses String asa) Dictionaryb) Array	key to store	the value in	=	d) Properties	
	7. Which of these class objects uses key to sto a) Hashtable b) Dictiona		c) Map		d) all if the mentioned	
	8 can be used to control the order a) Serial comparators c) comparators		comparators		ction of object too.	
	9. How does the set collection deal with dupli	cate elemer	nts?			

A. An exception is thrown if you attempt to add an element with a duplicate value

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B. The add method returns false if you attempt to add an element with a duplicate value

C. A set may contain eleD. Duplicate values will		•	es from a call to the ed	quals method
10. What is the s A: ==, equals(), hasho	sequence follo ode()	•	B: equals(), == , hash	g or retrieving entries. code()
C: hashcode() , == , e	quals()		D: none of these	
11. If you try to invoke exception	"remove()" me	ethod on iterator o	f CopyOnWriteArrayLis	st , it raises following
A: ConcurrentModificati	onException	B։ Unsupր	oortedOperationExcep	tion C:
IllegalOperationException	on	D: none of	f these	
12. Map implementation	n which provi	des both Thread-Sa	afety as well as Concur	rency.
A: ConcurrentHashM	lap	B: HashMap	C: HashTable	D: none of these
13. Stream API is used to	o implement			
A: Internal iteration	3 mprement	B. E:	xternal iteration	
C. Both A and B			D. None of the above	2
14. In get () or put() of n	nap implement	ration equals () is (Called before ==.	
A. True		B. False		
15. Algorithms are pres	ent incide			
A. LinkedList	ent made.	B. Collection	C. Collections	D. Hashtable
46.11.				
16. Iterator of ArrayList A. False	is Fail-Safe.	B. True		
17. All the Collection AF		·	nent	
A. Runnable C. Externalizable		Serializable Comparable		
18. When you add any of A. True	object inside C	ollection API imple B. False	ementation class, its co	py is added.
A. IIue		D. raise		
19. Whenever we creat				
A. Vector	B. f	None of these	C. List	D. Map
20. In map implementat	ion when hash	ncode of two keys a	are same it is called as?)
A. Hashing	B. Hash Collision	on C. Hash C	lash D. None	of these
21. One of the following	=		-	
A. Comparator	B. None of the	se	C. Enumeration	D. Comparable
22. Snapshot of list is cr	eated in case (of		
A. CopyOnWriteArra	yList	B. Linked List	C. Arraylist	D. Vector
23. One of the following	gs is not Threa	d Safe		
A. StringBuffer E	3. Hashtable	C. Vector	D. none	of these

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	PG DAC Feb 20 JA	AVA Technologies-	1	
order that is the sam implementation of the	u would like to create ar ne as the iteration order he Map interface should	of an existing instance d be used for the new i	of a Map. Whic nstance?	h concrete
A. TreeMap	B. HashN	чар	C. LinkedHas	sniviap
25. Which class does class Object?	s not override the equals	s() and hashCode() met	thods, inheriting	them directly from
A. java.lang.String C. java.lang.Strin g			B. java.lang.[D. java.lang.(
26. What will happen a.addElement(10); System.out.println(a	n if you compile/run the	e folowing lines of code	? Vector a = nev	v Vector();
A. Prints 10.		B. Prints 11.		
C. Compilation error	at line 3.	D. Prints some garba	age.	
Q.27 Comparable is	a			
A. interface	B. classes	C. Both 1 and 2	Г	Onone of the above
Q.28 Arraylist is				
A. class		B. List implementati	on	
C. Both a and b		D. None of the abov	re	
Q.29 hash code is us	ed by			
A. set	B. map	C. both a & b	D. None of t	he above
Q.30 Which of the fo	ollowing data structures	implements FILO mech	hanism	
a) Queue	b) Hash	c) Linked List	d	l) Stack
a) Hashmap is thread		s not		
		EXCEPTION		
 Given Following coclass sub extends ba 				
	void disp()throws IOI { }	Exception		
} class base				
r				
1	void disp()throws Exc	ception		
	{			

}

{

public class myclass

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		reb zu java Techn		
	public stat	ic void main(String args	s[])	
	{	try		
		{		
		base b=new sub();	b.disp();	
		}		
		catch(Exception ee)		
		{		
		System.ou	ıt.println(ee);	
		}		
		System.out.println("d	one");	
	}			
	}			
	A. warning	B. compilation error	C. runtime error	D. output "done"
2.	Which statement is false from the	following?		
	A. we can have try and finally with	out catch		
3.	finally gets executed irrespective	whether exception is ra	ised or not	
С.	if system.exit is called from within	try or catch, finally wil	I not be executed at all	
	D. none of the above			
3.	Class.forName requires which of t	he following exception	to be handled	
	A. ClassCastException		B. ClassNotFoundExc	eption
	C. IllegalAccessException		D. none of the above	•
4.	Class.newInstance() requires which	h of the following exce	ption to be handled	
	A. IOException		B. ClassNotFoundExce	ention
	C. IllegalAccessException		D. none of the above	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	er megan tecesszacep nem		Difficult of the above	
5	Imagine there are two exception of	classes Excention1 and	Exception2 derived from	n the Excention class
٠.	Given these two definitions:	nasses theeptions and	zaception z derived noi	The Exception diagon
	class First			
	{			
	void test()	throws Exception1,Exce	ention1	
	void test()	tillows Exception1,Exce	priorii	
	1			
	1			
	class Second extends First			
	r			
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
	void test()			
	1			
	1			
	Nove define a class "Thind" do vive	d from "Cooond" and a	ر ماده ماده (۱/۷ معد ۱/۷ مع ماده معال	:
	Now define a class "Third" derived		remue test () method	i iiisiue it. What
	exceptions can Third's test() meth	ou throw?		2
	A. Exception1	•	B. Exception	
	C. No checked except	ions	D. it can o	declare any checked
	c val I			
	6. What letters get written to the	standard output with t	ne following code? pul	blic class MyClass
	{		F3)	
	public stat	ic void main(String args	S[])	

try



```
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                       method();
           catch(Exception ie)
static void method()
                      try
           {
                       wrench();
                       System.out.println("a");
           catch(ArithmeticException ae)
                       System.out.println("b");
           finally
                       System.out.println("c");
                       System.out.println("d");
}
static void wrench()
{
           throw new NullPointerException();
```

C. **c**

- 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'.

A. A

C. The exceptions that are checked by the JVM are called 'unchecked exception

B. b

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
 {

D. Compilation error





```
public static void throwIt()
            throw new Exception();
       public static void main(String[] args)
                   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:
 1. public class Foo {
 2. public static void main(String[] args) {
 3. try {
 4. return;
 5. } finally {
 6. System.out.println( "Finally" );
 7. } 8. }
   9. }
   What is the result?
                                       B. Blank
   A. Finally
                                                               C. Null
                                                                                        D. None of the above
11. In exception handling mechanism, finally block is always executed, even if no exception occurred in the try
   block
   A. True
                                    B. False
12. Exceptions can be caught or rethrown to a calling method.
   A. True
                                   B. False
13. Given Following code: import java.io.*; class base
                           void disp()throws IOException
                           }
   class sub extends base
                           void disp()throws Exception
                           }
```

}



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```
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
```

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```
System.out.println(num[args.length]+" arguments");
    }
  }
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("==");
                          }
  }
  A. True
                                                             B. False
  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:
                                       B. throws Exception
  A. throw Exception
                                      D. Don't need to specify anything
  C. new Exception
  18. What is the result of executing the following code, using the parameters 4 and 0:
  public void divide(int a, int b)
   {
       try
                {
         int c = a / b;
     catch (Exception e)
       System.out.print("Exception");
      } finally
      System.out.println("Finally");
  A. Prints out: Exception Finally
                                                             B. Prints out: Finally
  C. Prints out: Exception
                                                             D. No output
  19. Given public class MyClass
  {
                                      public static void main(String args[])
  {
                                      String s1="hello";
                                      String s2=new String("hello");
                                      String s3="hello";
```

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



PG DAC Feb 20 JAVA Technologies-1 27. Which one is checked exception **B.** MalformedURLException C. A. ClassCastException ArrayIndexOutOfBoundsException D. None of the above 28. In order to declare exception which keyword is used A. Throw B. Throws D. None of the Above C. Throwing 29. when an exception happens in the finally block it should be A. It should be thrown by using throws. B. We should catch it C. Depends on scenario D. None of the above. 30. Checked exceptions are automatically propagated to the caller. 31. Unchecked exceptions are automatically propagated to the caller. 32. If u want to create checked exception as user defined exception u need to extend A. RuntimeException B. Throwable C. Exception 33. When u write one try and multiple catch the most specific catch should precede the most generic catch B. False A. True 34. class exception_handling public static void main(S1ring argsO) try System.out.print("Hello" + " " + 110); } finally System.out.print("World"); } } } A. Hello B. World C. Compilation Error D. First Exception then World 36. Which of the following is not generally recoverable in the program A. Error B. Exception C. Both a and b D. None of the above.

FILE HANDLING

1. One of the following class provides "seek ()" method

A: FileInputStream C: RandomAccessFile D: FileReader B: File

2. Given

File f=new File("abc.txt");

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FileInputStream fis=new FileInputStream(f); byte arr[]=new byte[100]; which statement will read content of "abc.txt" into arr. A: arr=fis.read() B: f.read(arr) C: arr=f.read() 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")); 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. B: SingleThreadModel C: Serializable D: Comparable A: List 6. Which one of the following is not from java.io.package B. StringReader D. File A. String - correct ans C. Writer 7. What is the output? public static void main(String[] args) { // TODO Auto-generated method stub int x=0; int y=10; do ++x; }while(x<5);</pre> System.out.println(x+"\t"+y); output- 5 5 how does readObject() of ObjectInputStream indicate end of file? A. returns null 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.



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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.

```
9. Given this code: Import java.io.*;
 Class Write
     Public static void main(String args[])
              File f=new File("a.txt");
              FileOutputStream fos=new FileOutputStream(f);
              // write int here inside the file
 How can u replace the comment at the end of main with code that will write integers from 0 to 9?
 A. DataOutputStream dos=new DataOutputStream(fos);
 a. for(int i=0;i<=9;i++)
 b. {
    dos.write(i);
 c. }
 B. for(int i=0;i<=9;i++)
 a. {

 f.writeInf(i);

 b. }
 C. for(int i=0; i<=9; i++)
    fos.writeInt(i);
i.
ii.
 D. DataOutputStream dos=new DataOutputStream(fos);
 a. for(int i=0;i<=9;i++)
                             dos.writeInt(i);
```

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

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D: Externalizable is a marker interface.

13. Given		
class base		
{ '		
int k; າ		
र class sub implements Serializab	nle	
{	nc .	
base b=new base();		
int j;		
}		
If we try to serialize instance of		
A: sub as well as base state will	be serialized	
B: NotSerializableException		
C: only sub instance will be seri		
D: compiler error " cannot seria	alized object na	aving non-serializable parent
14. Which class is not serialized	Ч	
A: java.lang.Thread B: java.lan		
	of the above	
. ,		
15 is a communica	ation path bet'ı	n source and destination
A. File B. stream	C. directory	D. none of the above
16. InputStream and OutputStr	eam are concr	
A. True		B. false
17. if u want to write primitive	types u need to	0.1150
A. DataoutputStream	types a need to	B. FileOutputStream
C. OutputStream		D. ObjectOutputStream
		, ,
18 class allows us t	o write and rea	ad both.
A. FileReaderWriter		B. RandomAccessFile
C. BufferedWriter		D. none of the above
19. Serializable extends Externa		
A. True	B. false	
20. Serializable is marker interf	ace	
A. True	B. false	
21. In case of Serializable when	u deserialize a	an object constructor does not get invoked.
A. True	B. false	
22. While deserialization if seria	alversionUID d	_
A. IllegalClassException		B. InvalidClassException
C. NullPointerException		D. none of the above

23. Which is correct

A. FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new

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B. FileOutputStream fos=new FileOutputStream("filename");
ObjectOutputStream oos=new ObjectOutputStream(object to be added); oos.writeObject();

C. FileOutputStream fos=new FileOutputStream("filename"); ObjectOutputStream oos=new ObjectOutputStream(fos); oos.writeObject(object to be added);
D. none of the above

25. in case of Externalizable when u deserialize an object first readExternal() is called and then constructor is called.

A. True B. false

24. File class is used to create new file.

A. True

26. In order to serialize inner class, outer class must be Serializable

B. false

A. True B. false

27. If inner class implements Externalizable we don't get any problem while deserialization

A. True B. **false**

28. If static nested class implements Externalizable we don't get any problem while deserialization

A. True B. false

29. Java.lang.Object class implements Serializable

A. True B. false

30. transient variables make sense I n context

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

31. Which of these classes are used by character streams for input and output operations?

A. InputStream **B. Writer**

C. ReadStream

D. InputOutputStream

32. FileWriter fw = new FileWriter("a.xyz"); in this code, we are using

A. Text based io B. binary based 10 C. both a and b D. none of the above.

GENERICS

1. At the time of compilation compiler removes all the information about generics. This is known as

A. Generic-removal B. Generic-Erasure C. **Type-Erasure** D.none of the above

2. <P extends Q> here Q can be either class or interface

A. True B. false

3. We can't have generic method in non-generic class

A. True B. false

4. Polymorphism applies to base type as well as generic type.

A. True B. false

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5. Mixing generic and non-generics can be risky

A. True 6. If the base class reference referring to sub class array then there is a possibility of A. IllegalArrayException B. ArrayStoreException C. NullPointerException D. none of the above 7. In case of <? Extends> we can add A. True B. false 8. In case of <? super> we can add A. True B.false 9. List<? Super Thread> mylist=new ArrayList<Object>() will work A. Yes B. no 10. List <? Super Dog> mylist=new ArrayList<Animal>() mylist.add(new Cat()); will work A. Yes B. **no**

11. List<?> allows u to add

A. True B. false

12. List<Object> allows u to add

B. false A. True

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
  static
   {
            System.out.println(" static c");
}
public class myclass
```

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```
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
  int i;
            base()
            add(1);
   void add(int v)
                        i+=v;
   void print()
            System.out.println(i);
   }
```

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```
}
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());
}
                                                            C: 22
A: 9
                        B: 18
                                                                                                 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 instance of 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[])
  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");
}
```

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- 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.
- 7. Why multiple inheritance is not available in java?
 - A. It leads to confusion for a Java program
 - B. The programmer can achieve multiple inheritance by using interface
 - C. The programmer can achieve multiple inheritance by repeatedly using single inheritance
 - D.All of the above

```
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");
           }
```

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```
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
class sub extends base
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 ()
system.out.println ("amethod");
public class Fin extends Base
public static void main (String argv [] )
Base b = new Base();
b.amethod();
}
A. Compile time error indicating that a class with any final methods must be declared final itself
B. Compile time error indicating that you inherit from a class with final methods.
C. Run time error indicating that Base is not defined as final.
D. Success in compilation and output of "amethod" at run time
11. class Foo
  int num;
  Bar comp=new Bar();
}
class Bar
```

boolean flag;

}

{





```
class Baz extends Foo
   Bar thing=new Bar();
  double d;
}
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[])
           Trial t=new Trial();
                                               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"
13. Given
 interface emp // 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.
                       restrictive than public.
A. More restrictive than public, but less restrictive than protected
B. More restrictive than private
C. More restrictive than protected, but less restrictive than private
D. Less restrictive than protected from within a package, and more restrictive than protected from outside
a package
15. What will be the output of the following code? public class VerySmart
```





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

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```
}
  }
  public class test11
     public static void main(String args[])
     {
              base b;
                                      b=new sub();
                                                                          b.print();
  }
                                      C. Error: super has to be on first line of constructor
                                                                                                  D. 2
               B. 3
  21. What is garbage collection process in java?
     A. The operating system periodically deletes all the java files available on the system.
     B. Unused package in program is automatically deleted.
     C. When all references to an object are gone, memory used by that object is automatically reclaimed.
     D. The JVM checks the output of any java program and deletes anything that does not make sense.
  22.
              Given the following code, public class Test
   String str="hello";
     1.
              Test t=new Test();
     2.
              System.out.println(t.str);
     3.
              t=null;
              System.out.println(t.str);
     4.
              System.out.println("done"); What will happen to the above code?
  A: "NullPointerException" at Line 3
                                                  B: "NullPointerException" at Line 4
  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
                          B: Line 4
                                                  C: Can't say exactly when
                                                                                      D: both Line3 and Line4
  24. What is the output?
  public class Trial
   int num=10;
   void change(Trial ref)
  ref.num=20; ref=new Trial();
     ref.num=30;
                          ref=null;
   }
```



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

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```
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==");
            }
            else
                       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.
A. True
                                                B. False
32. Final keyword can be applied to
A. Instance member
                                    B. Class variable
                                                           C. Local variable
                                                                                   D. All of the above
33. In java we can apply static modifier for local variable.
A. True
                       B. False
34. In order to make a class abstract:
A. Apply abstract keyword to class
                                                            B. Declare abstract method inside class
C. Both a and b
                                                            D. None of the above
```

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35. In order to check "is-a" relationship, we use following operator

A. Is-a **B. Instanceof** C. Is relationship D. None of the above

36. If we try to cast the classes out of hierarchy we get

A. BadCastException B. OutOfHierarchyException

C. ClassCastException D. None of the above

37. At the time of overriding function, if we change the argument :

A. It gives compiler error

B. It gives runtime error

C. Compiler automatically removes the argument **D. It becomes overloading.**

38. Will following code work? Class MyClass extends String{}

A. Yes B. No

39. Which of the following statements are true?

A. An abstract class may not have any final methods.

B. A final class may not have any abstract methods.

C. Every class must have a main method.

D. The mandatory elements in a file are: package, import and class.

E. A Java identifier must begin with a letter, \$, ! or _.

40. super call should always be

A. main function B.in the super class C. in the subclass. D.None of the above

41. extends keyword can be used with

A. Interface B. class C. both D. None of the above

42. final keyword for class in java means

A. no overriding B. no overloading C. Both a & b D.none of the above

43. interfaces in java is for

A. contract B. abstraction C. both a and b D. None of the above

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

A. run method B. start method C. main method D. None of the above

46. overriding uses

A. variables B. functions C. classes **D. None of the above**

```
47.
class A
{
  int i;
  void display()
  {
    System.out.println(i);
  }
} class B extends A { int j;
  void display() { System.out.println(j));
}
```





```
}
class inheritance demo {
public static void main(Stri111g argsO)
B obj = new B();
obj.i=1; obj.j=2;
obj.display();
}
Output of this program is
A.O
                                   B. 1
                                                           C. 2
                                                                                   D. Compilation Error
48. interface Z extends A, here A is
                                                                                   D. none of the above.
A. class
                       B. function
                                               C. interface
49. How can we ensure that a class will not be inherited from?
A. Delare it as constant
                                                           B. Declare it as final
C. Declare it as static
                                                           D. None of the above
50. superclass ref = new SubclassObject(), cannot access typically
A. Non final functions of super class
                                                           B. Final functions of super class
C. Exclusive functions of sub class
                                                           D. None of the above.
Q.51 When a program class implements an interface, it must provide behavio
A.Two methods defined in that interface.
                                                           B. Only certain methods in an interface
                                                           D. All methods defined in that interface.
C. Any methods in a class.
52. Which modifier would be used to limit the methods visibility to only the ot the current oackaae and all
subclasses.
A. public
                       B. private
                                               C. protected
                                                                                   D. default
53. The variables in an interface can have which modifiers?
                       B. Static
                                                           C. Final
                                                                                   D. All of the above
A. Public
54. To compare whether two references point to the same object we use
A. == operator
                       B. equals function
                                               C. we can use both
                                                                                   D. none of the above.
55. non final functions have to be
A. overridden
                       B. may be overridden
                                                           C. ABoth a and b
                                                                                   D. None of the above
56. What is the output of this program?
  class A
   {
            Public int i;
           Private int j;
  Class B extends A
            Void display()
                       super.i = super.i + 1;
```



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```
System.out.println(supper.i + " " + supper.j);
           }
  }
            class inheritance
                       public static void main (String args[])
                                   B obj = new B();
                                   obj.i=1;
                                   obj.j=2;
                                   obj.display();
                       }
A. 22
                       B. 33
                                               C. Runtime Error
                                                                                   D. Compilation Error
57. A class can be declared as if you do not want the class to be subclassed. Using the
           keyword we can abstract a class interface from its implementation
A. protected, interface
                                   B. final, interface C. public, friend
                                                                                   D. final, protected
58. Select the correct statement
A. Method overloading is called compiled time polymorphism
B. Method overloading is called runtime polymorphism
C. only [B] is correct
D. Both [A] and [B] are correct
59. What is the output of the below program?
public class A
public void foo()
System.out.println("foo");
public void foo(int a)
System.out.println("foo(int)");
public class B extends A
public void foo()
foo(5);
public void foo(int a)
System.out.println("fooB(int)");
}
public class test
Public static void main(String[] args)
```



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```
Aa = 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();
   }
A. program will not compile
                                                                                                 D. AB
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)
            System.out.println("A(int)");
}
Public class B
   Pulic B()
            System.out.println("B()");
            Super();
Public class Test
```





	Public static void m	PG DAC Feb 2 ain(String[] args)	0 JAVA Techr	iologies-1				
	A a1 = new }	r В();						
} A.	program will not co	o mpile B. B()	A(int) A()	C. B()	D. B() A()	A(int)		
			JAVA	FX				
1.	In JavaFX following of A. Scene	class is acting as a B. Stage	container for all C. Layout		S D.None of	the above		
2.	In order to start eve A. Init()	ry JavaFX applicat B. Start()	ion you must inv C. Launch			f the above		
		ļ	MULTITHRI	EADING				
	One of the following plications.	g method is not ex	ecuted by the p	rogrammer v	vhile writing	multithreaded		
A:	start	B: sleep	C: join		D: run			
2. {	Given public class Trial extends Thread							
	<pre>public void run()three</pre>	ows NullPointerEx	cception					
	=	t.println("hello");						
	public static void m	ain(String args[])						
	new Trial() }	.start();	System.o	ut.println("do	one");			
}								
B: C:	NullPointerException Compilation error "coutput "done" "helit will print "done" a	overridden metho lo"			Exception"			
A: B: C:	Which of the following you cannot notify a synchronized keywowait, notify methods InterruptedException	particular thread ord can be applied s can be called onl	to static metho y from synchron		s or block			
	The int executed by a threa Serializable		implemented by C: Collect	-	nose instance D: Runnabl	es are intended to be	ة	

5. Consider the following: class X implements Runnable





{		· _ _
τ public static void main(String args[7)	
{		
/* Missing code? */		
public void run() { }		
}		
Which of the following lines of cod A: Thread t= new Thread(X);	le is suitable to start a thread?	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), t.start(), D: Thread t= new Thread(); x.run();
6. Which of the following statemen		
A: A static method cannot be syncles. Non-synchronized method can be		g called from a synchronized method
C: When a thread call wait() from	-	
D: Primitive variables can be prote	cted from concurrent access using	ng synchronized block.
7. Given		
public class TestOne {		
public static void main (String[] arg	şs) {	
Thread.sleep(3000);		
System.out.println("sleep"); }		
}		
A: No error, prints sleep	B: Compilation error	
C: Runtime Error	D: No error & no output	
8. Which of the following are meth	nods of the Runnable interface?	
A: run B: start	C: yield	D: stop
9. While using Thread, which is inc	orrect	
A. u invoke run()	B. u invoke start()	
C. u implement Runnable	D. u extend Thread	
10. Which type of instanceof does	targetOhiect have to pass for the	is to be legal while using
Thread t=new Thread(targetOb		is to be legal with a damp
A. targetObject instanceof Thre	-	Object instanceof Applet
C. targetObject instanceof Obje	ct D. targe	tObject instanceof Runnable
11. are utilized to con	trol the access to an object espe	cially in multithreaded programming?
A. Asynchronized methods	B. serialized method	
C. synchronized methods	D. both a and c	
12. means each met	hod in multithreaded environme	ent doesn't access data by multiple
threads at the same time.		,
A. Thread detach	B. thread isolation C. threa	d safety D. thread lock
13. Which of the following starts the	he default thread available in iau	ra nrogram?
A. System class B. main me		D. none of these
	•	



- 14. Which two can be used to create a new Thread?
- A. Extend java.lang.Thread and override the run method.B. Extend java.lang.Runnable and override the start method.
- C. Implement java.lang.thread and implement the run method.
- D. Implement java.lang.Runnable and implement the run method.
- 15. What is the use of the synchronized keyword?
- A. Allows two process to run in parallel but to communicate with each other
- B. Ensures only one thread at a time may access a method or object
- 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);
      }
  }
}</pre>
```

- 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

```
    Given the following,
    class MyThread extends Thread {
    public static void main(String [] args) {
    MyThread t = new MyThread();
    t.start();
    System.out.print("one. ");
    t.start();
    System.out.print("two. ");
    }
    public void run() {
    System.out.print("Thread ");
    }
    }
```

- What is the result of this code?

 A. Compilation fails
- B. An exception occurs at runtime. java.lang.lllegalThreadStateException
- C. Thread one. Thread two.



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D. The output cannot be determined

A. True

18. What is	the o/p of the foll	owing program?	?		
1. class My	Thread extends Th	read {			
2.					
•	tatic void main(Stri				
•	ad t = new MyThre	ad();			
	x = new Thread(t);				
6. x.start()	; 7. }				
8.					
9. public v	** -				
10.	for(int i=0;i<3;++i)	=			
11.	System.out.print(i	+ "");			
12.	} 13. }				
14. }		D 4 2 2			204.2
A. Compila	tion fails.	В. 123		C. 0123	D.012
40.1					
	of class lock, non-s	tatic synchroniz		come into picture	•
A. False			B. true		
20 Class #	مارين بام ما ما ما م م م				
-	eleases the lock wh	ereas wait does			
A. True			B. False		
21 What id	s the effect of issuir	og a wait () moth	and on an ok	vioct	
	fy() method has alr	•			ct
	• "	·	•		
_	eption will be raised		nt until anot	ner object senus a	notify() or notifyAll() method
	±		automatical	ly synchronized wi	th any other objects using the
D. The obj	receiving object.	io wan() win be	automatical	ly syncinonized wi	th any other objects using the
	receiving object.				
22 One of	the following meth	od has to he inv	oked hy the	nrogrammer in or	der to bring thread from born
to runnable		iod has to be in	Toked by the	programmer in or	act to still timeda iroin sorri
A: start	B: slee	D	C: join	D: run	
			J -		
23. Which	of the following is t	he correct state	ement		
	not notify a particu				
•	nized keyword can		atic method	S	
•	ify methods can be				ock
D: all of th	•	,	,		
24. Select t	he correct stateme	ent:			
A. in case of	of intrinsic lock, wh	en exception is	raised in a	synchronized code	, lock is automatically
released.					
B. in case of	of Reentrant lock, w	hen exception i	s raised lock	is automatically re	eleased.
C. Both A a	nd B.				
D. None of	these.				
25. Thread	s are lightweight as	compare to pro	ocesses		

B. false

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26. The method used to register thread with JVM scheduler D. none of the above A. urn B. register 27. By default the priority of thread is A. Minimum B. maximum C. normal D. none of the above 28. Sleep releases the lock wait does not A. True B. false 29. One of the following methods programmer never invokes in case of multi-threading application B. start C. wait D. notify 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 C. No error no output D. Program will behave differently on different platforms 32. Wait, notify and notifyAll methods are A. Abstract B. static C. final D. none of the above 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
                      B. Synchronized
                                             C. Thread-Safe
                                                                    D. none of the above
  A. Singleton
38. _____ method makes caller thread wait till this thread die.
                      B. sleep
                                             C. yield
A. Wait
                                                                    D. join
```

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

A. run method B.start method D. None of the above C.main 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) { A a = new A();a.start(); System.out.print(a.i); What are the possible results of attempting to compile and run the program A. Prints nothing B. Prints: 0 C. Prints: 1 D. Cant say. 39.class multithreaded progr.aming public static void main(String argsO) Thread t = Thread.currentThread(); System.out.println(t); This will call the toString method of A. Thread class B. Object class C. String class D. none of the above **OOPS**

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



```
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           Trial t=new Trial();
                                              t.change(t);
           System.out.println(t.num);
  }
                                                                                  D: None of the above
A: 20
                       B: 10
                                               C: NullPointerException
2. Which of the following modifiers can be applied to Top Level classes?
A: public
                       B: default
                                               C: protected
                                                                      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");
A: output "0"
                       B: NullPointerException
                                                          C: Compilation error D: output "garbage"
6. Given public class Trial (static Double d;
  public static void main(String args[])
           if(d==0)
                       System.out.println("0");
           }
           else
           {
```

System.out.println("garbage");

}

}

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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

A: String

B: Exception

C: Object

D: None of the above

- 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?

A: s.concat()

B: s.touppercase()

C: s.replace()

D: None of the above

```
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: 1 2 1 5
B: 1 5 1 5
```

C: 345375

D: 375375

13. What is the result of the following code? import java.util.*; enum Animals





```
DOG("woof"), CAT("meow"), FISH("burble");
String sound;
Animals(String s) { sound = s; }
}
public class test11 { static Animals a; public static void main(String [] args) {
System.out.println(a.DOG.sound + " " + a.FISH.sound);
}
A: Multiple compilation errors
B: woof burble
C: Compilation fails due to an error on line 3
14. Inner class gets access to
A: outer class variables
B: outer class variables only if we created outer class object in inner class.
C: inner class variables only
D: none of the above.
15. Which of the following is not a wrapper class?
                                                                        D: Character
A: String
                        B: Integer
                                                C: Boolean
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));
   }
}
                        B. false
   A. true
                                               C. compiler error
                                                                                   D. runtime error
17. Which of the following is not abstract?
A. Thread
                       B. Collection
                                                           C. AbstractList
                                                                                               D. List
18. To provide access to members of the class to another class in different package which access specifier
is used?
A. Public
                        B. protected
                                                                        D. no modifier
                                                C. private
19. Which of these methods is rounding function of Math class?
                                                                       D. all of the above
A. max()
                        B. min()
                                               C. abs()
```



20. In java System.out is an obj A. InputStream B. Print	•	 tStream D. Buffe	redInputStream
21. Which of the following stat A. It can extend exactly one B. It can extend exactly one C. It can extend exactly one D. It can implement multiple	class and implement exa class and can implement class or implement exact	ctly one interface multiple interfaces ctly one interface	
22. Which string instance meth a="BUTTERfly" and b="butte		en invoked liked this:	a.method(b) where
a) equalsIgnoreCase()	b) toUpperCase()	c) toLowerCase()	d) equals()
23. Which of the following is an A. Determining the state of C. Determining duplicate cla	an object	B. Determining obje	ct validity f the class of an object
24. What is the difference betwA. super() constructor is invoked constructor of the sub class.B. this() constructor is invoked	ed within a method of a c		
constructor of the sub class.	outside a method of a ci	ass write super() const	ructor is invoked within the
C. this() constructor is invoked constructor of the sub class.		ss while super() constr	uctor is invoked outside the
D. this() constructor is invoked the constructor of the sub class		a class while super() co	onstructor is used within
25. What is the output of the following for the following public static void main(String)		yClass	
{ StringBuffer sb1=new String StringBuffer sb2=new String String ss1="Anurag";			
System.out.println(sb1==sb: System.out.println(sb1.equal System.out.println(sb1.equal System.out.println("Poddar" }	als(sb2)); als(ss1));		
A. False , true , true, dar C. Compiler error		true, false, ddar false, false , dar	
26. Given following code, what { public static void main(Strin {		ut? public class MyClas	S





```
String str1="hello";
    String str2="hel";
    String str3=str2+"lo";
    if(str1==str3)
           System.out.println("str1 and str3 are
==");
    else
    {
           System.out.println("str1 and str3 are
 }
    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
27. Select a wrong statement about native method.
  A. Native method can be static
                                               B. Native method can be abstract
  C. Native method can be non-static
                                               D. Native method can be synchronized
```



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28. Constructor is the class that does not provide information about, and access to, a

single constructor of a class A. True	ss. B. False						
7. True	b. Tuise						
29. A class cannot be both abstract and final A. True B.False							
30. String s1="hello"; Strin A. s1==s2 B.	g s2="hello"; which s1.equals(s2)	one will ret	urn true C. both a and b				
32. What is the correct ord A. package, import, class C. import, package, class	dering for the import	he import, class and package declaration when found in a single file? B. class, import, package D. package, class, import					
33. When native method r A. NativeResolutionFaile C. UnsatisfiedLinkError	edException	et	B. NullPointerExceptio D. None of these	n			
A. It should not contain de B. It should contain only o	34. Select the correct statement about Functional Interface. A. It should not contain default or static methods B. It should contain only one abstract method. C. It should contain more than one abstract methods. D. None of these.						
35. Which operation is allo			C. &	D. &&			
36. Using reflection u can A. Access private fields	B. Access p	orivate meth	nods C. Both a a	n d b D. None			
37. JRE contains A. Jvm B. j	ars	C. dlls	D. all of the	e above			
38. Main() function is invol A. Programmer B. o	ked by class_loader	C. jvm	D. none of the above				
39 Address of next execu A. method_area	ting instruction is st B. stack	ored inside	C. heap	D. PC_Register			
40. Method area stores in A. Class_bytecode	formation about B. static_va	ıriables	C. method_names	D. all of the above			
41. In java objects are crea	ated on B. heap		C. both A & B	D.none of the above			
42 Which of the followin A. Main is public B. N	g statements is true Main is static		epts String[]	D. All of the above			

43. According to the new version of java, along with byte, short, int, char following type is also allowed

C. String

B. float

A. Double

D. none of the above

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Shriram	Mantri	
		١

44	. By-default value for the Re	ference type is:		
	A. false	B. 0	C. null	D.none of these
45	. In java by default member	functions are		
	A. static	B. virtual	C. final	D.all of the above
46	i. Just before object gets gar A. finalize() B. gc()	=	=	none of the above
47	In java the rule isA. member variable must bC. both a and b	e initialized before ι	use B. local variabl D. none of thes	e must be initialized before us
48	B. What will happen if static of A. Compilation Error. B. RunTime Error: NoSuch of C. Program will compile and D. Program will compile and program will compile and compile a	MethodError. I run without any ou	utput.	he main method?
49	D. Under what conditions is a A. When it detects that the B. As soon as object is set a C. At fixed intervalm it chec D. None of the above.	e object has become s null.		garbage collector?
50). Can constructor be inherit	ed?		
A.	True	В. І	False	
51	Under what conditions is a A. Just before object gets g C. At fixed intervalm it che	arbage collected.	В. и	garbage collector? As soon as object is set as null. None of the above.
	d. What is the output? Sublic class test10			
	<pre>static void call(int x) {</pre>	ng args[])		
	int num=0; call(num++); System.out.println }	(num);		
}	•			
^	1 0.2	C	2 n (1

53. Which of the following is the correct syntax for suggesting the JVM performs garbage collection.

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	I d DIId	1 00 20 11111	i ceimologie.	5 1	V/		
A. System.free ();			B. System.setGarbageCollection ();				
C. System.out.g	et () ;	D	D. System.gc ();				
54. Which of the fo	ollowing is not	orimitive data t	ype?				
A. int	B. Boolear	n C .	String	D. float			
55. Static member	scope is						
A. They are cre	ated when the	class is loaded	at runtime.				
B. They are crea	ated when mair	n get called.					
C. They are crea		-	ated.				
D. They are crea							
Di mey are ore.	acea which olds	, get mounieur					
56 What will be th	e result of atte	mnting to comp	aile and run the t	following code?	nublic class tost3		
_	e result of atte	inpling to comp	nie and run the	ionowing code:	public class tests		
{ static int a;	int b;						
•	,						
public '	tests()						
1							
int c;		c=a;	a++;		b+=c;		
}							
public	static void mair	n(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;,
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)
{ .
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
```

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63. What will be the output of the followingicode? 1. String s1 = "Java2"; String s2 = "Java2"; 3. if (s1 == s2)System.out.println("We are twins"); 5. else 6. 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()); } } A. Line 7 B. Line 8 C. Line 10 D. Line 11 65. non static variables are defined in **B.** classes C. both 1 and2 D. none of the above. A. functions 66. String objects are A. mutable C. all the above D. None of the above 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 C. coding error D. None of the above B. runtime error 70. non static variables are for C. both 1 and 2 D. none of the above A. objects B. functions 71. class A

{





```
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.prlntln{obj1.i +·" + obj.l);
this program will print
A. 3,4
                        B. 4,3
                                                C. compilation error
                                                                                     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
                                                                                                 D. 5
                                                            C. -1
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");
            }
A. compilation fails
                                    B. "1" is printed
                                                                                     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?
                                                C. Both
A. 1
                        B. 3
                                                                                    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()
```

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```
2: a = 2;
3: a = 3;
}
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
  Public static void main(String[] args)
           A a1 = null;
           A a2 = new A();
  }
}
A. Program will not compile
                                               B. 1
                                                                       C. Never
                                                                                               D. 4
83. What is the super class of integer?
                       B. Numeric
                                                           C. Number
                                                                                               D. Short
A. Object
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
  A. Jit_compiler
                        B. javac_compiler
                                               C. byte compiler
                                                                       D. none of the above
86. Data types in java are
                                               C. both a and b
                                                                       D. none of hese
  A. Primitive_type
                       B. reference_type
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

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A. pointers

C. multiple_inheritance

B. friend_keyword

D. all of the above

C. SMTP

D. all of the above



SOCKET PROGRAMMING

1.	Which of the following A: InetAddress	class allow	s Tcp Serve B: ServerS		client on a p	particular po		the above
	One of the following po A: 1 to 65535	ort range is	valid for Ne B: 1023 to		ramming in	java C: 1024 to	65535	D: 0 to 1023
	Which one is used to se A: DatagramPacket	end packet	over the ne B: Socket	etwork in cas	se of UDP? C: Datagra	mServer	D: Datagra	amSocket
	Which of the following A: FTP	is Applicati B: HTTP	ion level pro	otocol? C: JRMP		D: all of th	e above	
5.	A is an endpo A. ServerSocket	int for com	munication B. Socket	between tw	vo machines C. Datagra		D. Datagra	ımPacket
	6. Which of the followiA: InetAddressC: DatagramPacket	ng class allo	B: Datagra		for client or	n a particula	r port?	
	7. One of the following A: IPAddress	class is use	ed to repres B: InetAdo		ess of a mac C: Internet		D: Interne	tPacket Address
	8. Which method is use A: accept B: receive C: wait D: socketWait	ed to wait f	or client to	get connect	ed in TCP?			
	9. Which of the followi	ng is Applic	ation level	nrotocol?				
	A: TCP	B: HTTP	ation level	C: UDP		D: all of the	e above	
	10. The class which is u		•	t in case of l	JDP is			
	A. Socket	B. UDPSoc	ket	C. UserDat	tagramPacke	et	D. UserDa	tagramSocket
В. С.	11. The class which report internet Address IPAddress Inet Address none of the above	presents IP	address of	machine is				
A.	Which is Application la HTTP FTP	yer						



	method is used to wait for client request in UDP Wait
	receive
C.	accept
D.	none of these
	method is used to wait for client request in TCP
	Wait
	receive
	accept
D.	none of these
1 [If we want to pass an object over network it should implement
	Runnable
	Serializable
	Cloneable
	none of these
υ.	Tione of these
16.	class is used to make server wait for client request in TCP.
	Socket
В.	ServerSocket
C.	SocketInputStream
D.	none of these
	Valid range of port number for a java application is
	0 to 65535
	1 to 65535
	1024 to 65535
υ.	none of these
12	Marshalling is
	Converting packets into data
	converting data into packets
	converting bytes into character
-	
19.	TCP is reliable
	A. True B. false
	20. What will be printed out if you attempt to compile and run the following code?
	int i=9;
	switch (i) {
	deiault:
	System.out.println("default");
	cazse 0:
	Sy:stem.out.println("zero");
	break;
	case 1: System out println("one"):
	System.out.println("one"); case 2:
	system.out.println("two");
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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