

PG DAC JAVA Technoligies-1 Question Bank

Contents				1
	TION API			
	NPI			
	NF 1			
	G			
	DING			
	RAMMING			
		AWT		
1. Adapter cla	ass is not available for			
a: ItemListene		c: KeyListener	d: WindowListener	
{ public { } } What will hap a: compilatio c: runtime er 3. Given public class N { @Ove	AlyApp extends Applet C MyApp(int k) Open to the above code? In error "cannot instantiate MyApp" For "InstantiationException" AlyApp2 extends Applet Erride C void init() SetLayout(new GridBagLayout()); GridBagConstraints gbc=new GridBagbc.gridwidth=3; gbc.gridwidth=2; add(new Button("ok"));	d: compilation er	"paint() method not available" ror "paint() not defined"	
} What will hap a: compiler e	open? rror "add method must take 2 nd argu	ıment as GridRaøCo	nstraints"	
a. complici c	add method mast take = digo			

b: exception during runtime





- c: Button will appear according to gridwidth and gridheight specified
- d: Button will appear but not according to gridwidth and gridheight specified.
- 4. Select correct statement from the following
- a: BorderLayout is the default layout for Applet
- b: GridLayout can not work without GridBagConstraints
- c: pack() method displays window in a preferred size
- d: FlowLayout can not be used for swing components
- 5. Given

```
setLayout(new BorderLayout());
add("south",new TextField(20));
```

What will happen to the above code?

- a: compiler error
- b: textfield will be displayed properly at south
- c: exception
- d: textfield will be displayed in the center, since u have given illegal argument.
- 6. Select the wrong statements from the following
- a: Applet extends Panel

c: Dialog extends Frame

b: FileDialog extends Dialog

d: Window extends Container

7. Given

How will u add "mb" to the frame?

a: addMenuBar(mb);

b: setMenuBar(mb);

c: mb.addMenuBar();

d: add(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 the user's computer as an application?
- a) A Java application

c) A Java applet

b) A Java Servlet

- d) None of the above
- 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.

PG DAC JAVA Technoligies-1 Question Bank



d: None of the above

11. When u invoke "r method?	epaint()", for a light	tweight componen	t , the AWT package cal	ls which component			
a) repaint()	b) update()	c) paint()	d) draw()				
TextField tf=new Tex a) This code is ill b) Creates the Te will be always en c) Creates a new	 12. 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 						
a) <applet class="<br">b) <applet code="<br">c) <applet code="r</td"><td>owing the valid way myapplet.class wid myapplet width=10 myapplet.class heig =myapplet.class wid</td><td>h=100 height=100 0 height=100> ht=100 width=100</td><td>pplet> > </td></applet></applet></applet>	owing the valid way myapplet.class wid myapplet width=10 myapplet.class heig =myapplet.class wid	h=100 height=100 0 height=100> ht=100 width=100	pplet> >	t into a web page.			
a) A URL that pob) A URL to the ac) Indicate the b	 14. 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. 						
15. Executable apple a) class	t is nothing but b) java	file of apple	t. c) html	d) applet			
b) BorderLayoutc) the default lo	ponents are require is the default layou okandfeel for swing ot have Delegation menubar to the swing)	ed in SwingLayout it for JApplet components is Mo vent model.	otifLookAndFeel.				
b) By default Fra	the default layout f me is invisible. d displays window i	for Applet.					
19. Given setLayout(new Borde add(new TextField(20	0));						





- 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



PG DAC JAVA Technoligies-1 Question Bank

- 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
- A. Empty
- B. Methodless
- C. Marker
- D. Void
- 7) Inner class methods can access outer class members directly
 - A. True

- B. False
- 8) Static nested class methods can access outer class members directly
 - A. True

- B. False
- 9) There is one instance of class "Class" per class loaded.
- A. True

- B. False
- 10) To instantiate a particular class through reflection api we use
 - A. New Class
 - B. Class.newInstance
 - C. Class.newCreate
 - D. None of the above

COLLECTION API

- 1. One of the following throws ConcurrentModificationException if we try to modify while iterating over it.
- A: Hashtable
- B: CopyOnWriteArrayList
- C: ArrayList
- D: ConcurrentHashMap
- 2. The default capacity and load factor for Map implementations are
- A: 12 and 0.60
- B: 16 and 0.75
- C: 20 and 0.75
- 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 to disp?

A: ArrayList of Animal





B: ArrayList of Dog C: ArrayList of Object	İ.			
D: All the above are of	correct arguments.			
4. Which statement i A: List will allow ι B: List <object> will a</object>	u to add inside list.	list		
C: both A and B D: we can pass Array	List <integer> to List</integer>	<object></object>		
5. Which collection c elements, but whose A: java.util.HashSet B: java.util.LinkedHas C: java.util.List D: java.util.ArrayList	methods are not sy		nd provides indexed access to its	
6. Which of the followa) Dictionary	wing class uses Strin b) Array	g as key to store the v c) ArrayList	value in object? d) Properties	
7. Which of these cla a) Hashtable	ss objects uses key t b) Dictionary	co store value? c) Map	d) all if the mentioned	
8 can be u			tructure and collection of object comparators d) all of the al	
B. The add methC. A set may cor	is thrown if you atte nod returns false if y	empt to add an eleme ou attempt to add an return duplicate value	nt with a duplicate value element with a duplicate value es from a call to the equals metho	od
10. What is the sequence A: ==, equals(), hashous B: equals(), == , hashous C: hashcode(), == , e D: none of these	code()	shMap or HashSet wh	nile adding or retrieving entries.	
11. If you try to invexception A: ConcurrentModific B: UnsupportedOper C: IllegalOperationEx D: none of these	cationException ationException	thod on iterator of (CopyOnWriteArrayList , it raises	following
12. Map implementa A: ConcurrentHashM B: HashMap C: HashTable	•	both Thread-Safety a	s well as Concurrency.	





D: none of these

13. Stream API is used to implement	
A. Internal iteration	
B. External iteration	
C. Both A and B	
D. None of the above	
14. In get () or put() of map implemen	
A. True	B. False
15. Algorithms are present inside.	
A. LinkedList	
B. Collection	
C. Collections	
D. Hashtable	
D. Hashtable	
16. Iterator of ArrayList is Fail-Safe.	
A. False	B. True
17. All the Collection API implementa	tion classes implement
A. Runnable	
B. Serializable	
C. Externalizable	
D. Comparable	
18. When you add any object inside (Collection API implementation class, its copy is added.
A. True	B. False
10 141	
19. Whenever we create any implem	entation of set it result into
A. Vector	
B. None of these	
C. List	
D. Map	
20. In man implementation when has	shcode of two keys are same it is called as?
A. Hashing	incode of two keys are same it is called as:
B. Hash Collision	
C. Hash Clash	
D. None of these	
D. None of these	
21. One of the following allows us to	define more than one strategies.
A. Comparator	
B. None of these	
C. Enumeration	
D. Comparable	
. 22p.a. 46.2	
22. Snapshot of list is created in case	of
A. CopyOnWriteArrayList	:
B. Linked List	

PG DAC JAVA Technoligies-1 Question Bank



- C. Arraylist
- D. Vector
- 23. One of the followings is not Thread Safe
 - A. StringBuffer
 - B. Hashtable
 - C. Vector
 - D. none of these
- 24. Suppose that you would like to create an instance of a new Map that has an iteration order that is the same as the iteration order of an existing instance of a Map. Which concrete implementation of the Map interface should be used for the new instance?
- A. TreeMap
- B. HashMap
- C. LinkedHashMap
- D. The answer depends on the implementation of the existing instance.
- 25. Which class does not override the equals() and hashCode() methods, inheriting them directly from class Object?
- A. java.lang.String

B. java.lang.Double

C. java.lang.StringBuffer

D. java.lang.Character

EXCEPTION

```
1. Given Following code:
import java.io.*;
class sub extends base
{
    void disp()throws IOException
    {
        yoid disp()throws Exception
        {
            void disp()throws Exception
        {
            public class myclass
        {
                 try
              {
                  base b=new sub();
                 b.disp();
              }
        }
```



PG DAC JAVA Technoligies-1 Question Bank

```
catch(Exception ee)
                      System.out.println(ee);
               System.out.println("done");
}
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 without catch
B: finally gets executed irrespective whether exception is raised or not
C: if system.exit is called from within try or catch, finally will not be executed at all
D: none of the above
3. Class.forName requires which of the following exception to be handled
A: ClassCastException
B: ClassNotFoundException
C: IllegalAccessException
D: none of the above
4. Class.newInstance() requires which of the following exception to be handled
A: IOException
B: ClassNotFoundException
C: IllegalAccessException
D: none of the above
5. Imagine there are two exception classes Exception1 and Exception2 derived from the Exception class.
Given these two definitions:
class First
{
       void test()throws Exception1,Exception1
class Second extends First
       void test()
```

Now define a class "Third" derived from "Second" and override "test ()" method inside it.

What exceptions can Third's test() method throw?

a) Exception1

b) Exception2

c) No checked exceptions

- d) it can declare any checked
- 6. What letters get written to the standard output with the following code?



PG DAC JAVA Technoligies-1 Question Bank

```
public class MyClass
       public static void main(String args[])
               try
                      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();
}
a) A
                      b) b
                                                           d) compilation error
                                            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'.
           c. The exceptions that are checked by the JVM are called 'unchecked exception'
           d. Both 1 and 2
           e. None of the above
8. Read the following code below.
public interface AQuestion
{
```

public abstract void someMethod() throws Exception;

}





A Class implementing this interface should

a. Necessarily be an abstract class

9. Given:

- 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.

```
public class Test
   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?
                                                                     d. None of the above
a. Finally
                       b. Blank
                                              c. Null
11. In exception handling mechanism, finally block is always executed, even if no exception occurred in
the try block
a. True
                              b. False
```

12. Exceptions can be caught or rethrown to a calling method.



```
a. True
                              b. False
13. Given Following code:
import java.io.*;
class base
       void disp()throws IOException
}
class sub extends base
       void disp()throws Exception
}
public class myclass
       public static void main(String args[])
a) compile error
                                                     b) neither compilation nor runtime error
c) no compilation error but exception at runtime.
14. What will happen to the following code?
public class Test
  public static void aMethod() throws Exception
    try /* Line 5 */
      throw new Exception(); /* Line 7 */
    finally /* Line 9 */
      System.out.print("finally "); /* Line 11 */
  public static void main(String args[])
  {
    try
      aMethod();
    catch (Exception e) /* Line 20 */
      System.out.print("exception ");
```





```
System.out.print("finished"); /* Line 24 */
  }
}
A: finally
B: exception finished
C: finally exception finished
D: compilation fails
15. Which statement is true, if the following program is run by java test10?
           public class test10
               public static void main(String []args)
                      String []num={"one","two","three","four"};
                      if(args.length==0)
                             System.out.println("Zero");
                      else
                      System.out.println(num[args.length]+" arguments");
            }
           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:
 - A. throw Exception
 - B. throws Exception
 - C. new Exception





D. Don't need to specify anything

```
18. What is the result of executing the following code, using the parameters 4 and 0:
public void divide(int a, int b)
{
   try
     {
       int c = a / b;
  catch (Exception e)
    System.out.print("Exception ");
  finally
   System.out.println("Finally");
   A. Prints out: Exception Finally
   B. Prints out: Finally
   C. Prints out: Exception
   D. No output
19. Given
       public class MyClass
              public static void main(String args[])
              String s1="hello";
              String 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.
```

21. Can 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;}
A. 3
```



- B. 2
- C. 1
- D. Compilation error
- 26. One of the following is unchecked exception
 - A. IOException
 - B. ClassNotFoundException
 - C. FileNotFoundException
 - D. None of the above
- 27. Which one is checked exception
- A. ClassCastException
- B. MalformedURLException
- C. ArrayIndexOutOfBoundsException
- D. None of the above
- 28. In order to declare exception which keyword is used
- A. Throw
- B. Throws
- C. Throwing
- D. None of the above
- 29. Class.forName throws
- A. ClassCastException
- B. ClassNotFoundException
- C. NoClassDefFoundException
- D. ClassLoadingException
- 30. Checked exceptions are automatically propagated to the caller.
 - A. True
 - B. False
- 31. Unchecked exceptions are automatically propagated to the caller.
 - A. True
 - B. False
- 32. If u want to create checked exception as user defined exception u need to extend
- A. RuntimeException
- B. Throwable
- C. Exception
- D. Error
- 33. When u write one try and multiple catch the most specific catch should precede the most generic catch
 - A. True
 - B. False





FILE HANDLING

1. One of the following class provides "seek ()" method A: FileInputStream B: File
B: File C: RandomAccessFile
D: FileReader
D. I lieneauei
2. Given
File f=new File("abc.txt");
FileInputStream fis=new FileInputStream(f);
byte arr[]=new byte[100];
which statement will read content of "abc.txt" into arr.
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 implementinterface will not have any of their State serialize or
deserialized.
A: List
B: SingleThreadModel
C: Serializable
D: Comparable
6. Which one of the following is not from java.io.package

a. String - correct ansb. StringReader





```
c. Writer
```

d. File

output-55

how does readObject() of ObjectInputStream indicate end of file?

- a. returns null
- b. "" -1
- c. throws java.io.EOFException correct ans
- d. closes automatically
- 8. What does the following code do?

File f=new File("hello.test");

FileOutputStream fos=new FileOutputStream(f);

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



```
{
                       f.writeInf(i);
               }
c)
       for(int i=0;i<=9;i++)
                       fos.writeInt(i);
d)
        DataOutputStream dos=new DataOutputStream(fos);
               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 fos=new FileOutputStream(new ObjectOutputStream("aaa.txt"));
- 12. Which statement is correct?
- A: Externalizable is a base interface of Serializable
- B: String class is final hence cannot be serialized
- C: When a class implements Serializable and it is deserialized using readObject(), constructor is never invoked.
- D: Externalizable is a marker interface.

```
13. Given
class base
{
       int k;
class sub implements Serializable
base b=new base();
       int j;
If we try to serialize instance of sub class,
```

- A: sub as well as base state will be serialized
- B: NotSerializableException
- C: only sub instance will be serialized
- D: compiler error "cannot serialized object having non-serializable parent"





A: Java.lang.Thread B: Java.lang.Applet C: java.lang.Class D: All of the above 15	14. Which class is not serialized					
C: java.lang Class D: All of the above 15	A: java.lang.Thread					
D: All of the above 15	B: java.lang.Applet					
is a communication path bet'n source and destination A. File B. stream C. directory D. none of the above 16. InputStream and OutputStream are concrete classes A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NulPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream fos=new FileOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename"); oos.writeObject();	C: java.lang.Class					
A. File B. stream C. directory D. none of the above 16. InputStream and OutputStream are concrete classes A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream B. false 18	D: All of the above					
A. File B. stream C. directory D. none of the above 16. InputStream and OutputStream are concrete classes A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream B. false 18						
B. stream C. directory D. none of the above 16. InputStream and OutputStream are concrete classes A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream D. ObjectOutputStream B. RandomAccessFile C. BufferedWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface, A. True B. false 21. In case of Serialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	15 is a communication path bet'n source and destination					
C. directory D. none of the above 16. InputStream and OutputStream are concrete classes A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	A. File					
D. none of the above 16. InputStream and OutputStream are concrete classes	B. stream					
16. InputStream and OutputStream are concrete classes	C. directory					
A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream 18 class allows us to write and read both. A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	D. none of the above					
A. True B. false 17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream 18 class allows us to write and read both. A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	16. InputStream and OutputStream are concrete classes					
17. if u want to write primitive types u need to use A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream 18						
A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream D. ObjectOutputStream 18 class allows us to write and read both. A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	7 ii 11 de					
A. DataoutputStream B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream D. ObjectOutputStream 18 class allows us to write and read both. A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	17 if u want to write primitive types u need to use					
B. FileOutputStream C. OutputStream D. ObjectOutputStream D. ObjectOutputStream D. ObjectOutputStream 18 class allows us to write and read both. A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
C. OutputStream D. ObjectOutputStream D. ObjectOutputStream 18						
D. ObjectOutputStream 18 class allows us to write and read both. A. FileReader/Writer B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
class allows us to write and read both. A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
A. FileReaderWriter B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	D. ObjectOutputStream					
B. RandomAccessFile C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	18 class allows us to write and read both.					
C. BufferedWriter D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	A. FileReaderWriter					
D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	B. RandomAccessFile					
D. none of the above 19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	C. BufferedWriter					
19. Serializable extends Externalizable A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
A. True B. false 20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	19. Serializable extends Externalizable					
20. Serializable is marker interface. A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	A. True B. false					
A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
A. True B. false 21. In case of Serializable when u deserialize an object constructor does not get invoked. A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	20. Serializable is marker interface.					
 21. In case of Serializable when u deserialize an object constructor does not get invoked.						
A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	Til True					
A. True B. false 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	21 In case of Serializable when u deserialize an object constructor does not get invoked					
 22. While deserialization if serialversionUID does not match we get A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename"); 						
 A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	A. True					
 A. IllegalClassException B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	22 While deserialization if serial version LID does not match we get					
 B. InvalidClassException C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added);						
C. NullPointerException D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
 D. none of the above 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename"); 	·					
 23. Which is correct A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename"); 						
 A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename"); 	D. none of the above					
 A. a)FileOutputStream fos=new FileOutputStream(object to be added); ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename"); 	23. Which is correct					
ObjectOutputStream oos=new ObjectOutputStream("filename"); oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");						
oos.writeObject(); B. FileOutputStream fos=new FileOutputStream("filename");	, , ,					
B. FileOutputStream fos=new FileOutputStream("filename");						
·	oos.writeObject(),					
·	B FileOutnutStream fos=new FileOutnutStream("filename")					
Objectiontputation to 3-new Objectiontputation (Object to be added),	·					
oos.writeObject();						

C. FileOutputStream fos=new FileOutputStream("filename");

PG DAC JAVA Technoligies-1 Question Bank



	ObjectOutputStream oos=new ObjectOutputStream(fos); oos.writeObject(object to be added);		
D.	none of the above		
24. File cla	iss is used to create new file.		
	A. True	B. false	
	e of Externalizable when u deserialize an our	object first readExternal() is called and then	
	A. True	B. false	
26. In orde	er to serialize inner class, outer class mus A. True B. false		
27. If inne	r class implements Externalizable we dor A. True	't get any problem while deserialization B. false	
28. If stati	c nested class implements Externalizable A. True B. false	we don't get any problem while deserialization	
29. Java.la	ng.Object class implements Serializable A. True	B. false	
	GEN	IERICS	
A. B. C.		es all the information about generics. This is known as	
2) <p< td=""><td>extends Q> here Q can be either class o A. True B. false</td><td></td></p<>	extends Q> here Q can be either class o A. True B. false		
3) We	e can't have generic method in non-gene A. True	ric class B. false	
4) Po	lymorphism applies to base type as well a A. True	as generic type. B. false	
5) Mi	xing generic and non-generics can be risk A. True	gy B. false	
	he base class reference referring to sub of the base class reference referring to sub of the base class are the base class and the base class are the base class reference referring to sub of the base class reference referring to the base class reference reference referring to the base class reference refe	class array then there is a possibility of	

B. ArrayStoreException

PG DAC JAVA Technoligies-1 Question Bank



- 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

A. True

B. false

INHERITANCE



```
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);
class sub extends base
       sub()
               add(2);
       void add(int v)
               i+=v*2;
public class test6
       static void disp(base b)
               b.add(8);
               b.print();
       public static void main(String args[])
               disp(new sub());
}
A: 9
                                              C: 22
                       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 instanceof Trial)
                       System.out.println("Trial");
               if(t instanceof emp)
                       System.out.println("emp");
               if(t instanceof Object)
                       System.out.println("Object");
       }
```





```
A: Trial, emp, Object
B: Trial, emp
C: compilation error "can not use instanceof with interface"
D: Trial, Object
5. what is the output of the following code?
class a
{
       static
               System.out.println("static a");
class b extends a
       static
               System.out.println("static b");
}
class c extends b
       static
               System.out.println("static c");
public class MyClass
       static
               System.out.println("static MyClass");
        public static void main(String args[])
       new c();
       System.out.println("in main");
}
       in main, static a, static b, static c, static MyClass
a)
b)
       static MyClass, static a, static b, static c, in main
       static MyClass, in main, static a, static b, static c
c)
       static a, static b, static c, static MyClass, in main
d)
```

}

6. what will happen to the following code? class base



```
{
    public final void disp()
    {
        System.out.println("disp");
    }
}

public class sub extends base
{
    public static void main(String args[])
    {
        base b=new base();
        b.disp();
    }
}
```

- a) runtime error
- b) compiler error: final method must there in final class
- c) compiler error: a class having final method can not be instantiated.
- d) Neither compile time nor runtime error.
- 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



```
{
                      System.out.println("sub1");
               if(b instanceof sub2)
                      System.out.println("sub2");
               if(b instanceof sub3)
                      System.out.println("sub3");
       }
}
a. base
                      b. sub3
                                                                   d. sub2
                                             c. sub1
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 ();
}
}
```

11. class Foo

- 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

```
{
       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"

Lambda expression in order to use above interface would be:

- a. emp ref2=(String name)->{ return "Welcome to our site\t"+name;};
- b. emp ref2=(String name){ return "Welcome to our site\t"+name;};
- c. Both A and B
- d. None of the above
- 14. How restrictive is the default accessibility compared to public, protected and private accessibility?
 - a. Less restrictive than public.
 - b. More restrictive than public, but less restrictive than protected
 - c. More restrictive than private
 - d. More restrictive than protected, but less restrictive than private
 - e. 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
```

16. The programmer must explicitly create the System.in and System.out objects.

A. True

d. run time error

B. False

- 17. A method within a class is only accessible by classes that are defined within the same package as the class of the method. How can such a restriction be enforced?
 - A. Declare the method with the keyword "public"
 - B. Declare the method with the keyword "protected"
 - C. Do not declare the method with any modifiers.
 - D. Declare the method with the keyword "private"
 - E. Declare the method with the keyword "package"
- 18. A final class cannot have any abstract methods.

A. True

B. False





```
19. String class is
   a. final
   b. abstract
   c. static
   d. transient
20. what is the result of following code?
class base
       {
       int i;
       base()
               add(1);
       void add(int v)
               i+=v;
       void print()
               System.out.println(i);
}
class sub extends base
       sub()
               System.out.println("in sub def const");
              super.add(2);
       void add(int v)
               i+=v*2;
}
public class test11
       public static void main(String args[])
               base b;
               b=new sub();
               b.print();
}
       a. 4
       c. Error: super has to be on first line of constructor
       d. 2
```





- 21. What is garbage collection process in java?
- a. The operating system periodically deletes all the java files available on the system.
- b. Unused package in program is automatically deleted.
- c. When all references to an object are gone, memory used by that object is automatically reclaimed.
- d. The JVM checks the output of any java program and deletes anything that does not make sense.

```
22. Given the following code,
      public class Test
       String str="hello";

 Test t=new Test();

      System.out.println(t.str);
      3. t=null;
     4. System.out.println(t.str);
     System.out.println("done");
  What will happen to the above code?
     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";
      }
      1. Test t=new Test();
      System.out.println(t.str);
     3. t.str=null;
      4. t=null;
      System.out.println("done");
  At which line the object created at 1 will be marked for garbage collection?
      A: Line 3
      B: Line 4
     C: Can't say exactly when
      D: both Line3 and Line4
24. What is the output?
      public class Trial
       int num=10;
       void change(Trial ref)
               ref.num=20;
               ref=new Trial();
               ref.num=30;
               ref=null;
       }
```



```
public static void main(String args[])
               Trial t=new Trial();
               t.change(t);
               System.out.println(t.num);
       }
      }
      A: 30
      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?
A. after line 12
B. after line 14
C. after line 7, when doBar() completes
D. after line 15, when main() completes
26. What is the output for the following program?
class A
{
       static
               System.out.println("in A static block");
}
public class Trial
       A ob=new A();
       public static void main(String args[])
               System.out.println("in main");
       }
```





```
static
               System.out.println("in Trial static block");
}
      A: in A's static block, in Trial static block, in main
      B: in Trial static block, in main
      C: in A's static block, ,in main ,in Trial static block
      D: in Trial static block, in A's static block, in main
27. Given following code, what will happen to it?
      String str1="hello";
               String str2="hel";
               String str3=str2+"lo";
               if(str1==str3)
                       System.out.println("str1 and str3 are==");
               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.
```

B. False

A. True

31. <default> is more accessible than protected.

A. True



B. False



32. F	A. B. C.	eyword can be ap Instance membe Class variable Local variable All of the above	•			
33. I	-	we can apply sta True	atic modifier for B. False	local variable.		
34. Ir	A. B. C.	er to make a class Apply abstract k Declare abstract Both a and b None of the abo	eyword to class method inside			
35. lr	A. B. C.	er to check "is-a" Is-a Instanceof Is_relationship None of the abo		e use following op	erator	
36. If	A. B. C.	ry to cast the clas BadCastExceptic OutOfHierarchyl ClassCastExcepti None of the abo	on Exception ion	rchy we get		
37. A	A. B. C.	time of overridin It gives compiler It gives runtime Compiler autom It becomes over	error error atically remove	e change the argui	ment :	
38. V		lowing code wor ss MyClass exten Yes				
1. In . a. Sce		X following class b. Sta	=	JAVA FX ntainer for all the c. LayoutPane	contents	d.None of the above
2. In a. Ini		to start every Jav b. Sta		n you must invoke c. Launch()	following me	ethod d. None of the above





MULTITHREADING

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





Which of the following lines A: Thread t= new Thread(X); B: Thread t= new Thread(X); C: X run = new X(); Thread t=	t.start();		
D: Thread t= new Thread(); x	.run();		
6. Which of the following sta A: A static method cannot be B: Non-synchronized method C: When a thread call wait() D: Primitive variables can be	e synchronized d can become synchron from a synchronized m	ethod, it releases the lock	·
 Given public class TestOne { public static void main (Str. 3. Thread.sleep(3000); System.out.println("sleep" } No error, prints sleep Compilation error Runtime Error No error & no output 			
8. Which of the following areA: runC: yield	e methods of the Runna B: start D: stop		
9. While using Thread, whicha. u invoke run() - correb. u invoke start()c. u implement Runnabd. u extend Thread	ct ans		
10. Which type of instance of Thread t=new Thread a) targetObject instance b) targetObject instance c) targetObject instance d) targetObject instance	I(targetObject); eof Thread eof Applet eof Object	e to pass for this to be leg	al while using
11 are utilized to a) Asynchronized methods c) synchronized methods	b) seri	an object especially in mu alized methods n a and c	ultithreaded programming?
12 means eac	h method in multithrea	ded environment doesn't	access data by multiple
threads at the same time. a) Thread detach	b) thread isolation	c) thread safetv	d) thread lock

PG DAC JAVA Technoligies-1 Question Bank



- 13. Which of the following starts the default thread available in java program?
- a) System class
- b) main method
- c) static keyword
- 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 ");
```

13. }





14. } What is the result of this code? A. Compilation fails B. An exception occurs at runtime. java.lang.lllegalThreadStateException C. Thread one. Thread two. D. The output cannot be determined 18. What is the o/p of the following program? 1. class MyThread extends Thread { 2. 3. public static void main(String [] args) { MyThread t = new MyThread(); 5. Thread x = new Thread(t); 6. x.start(); 7. } 8. 9. public void run() { 10. for(int i=0;i<3;++i) { 11. System.out.print(i + ".."); 12.} 13.} 14. } Compilation fails. a. 1..2..3.. b. 0..1..2..3.. c. 0..1..2.. 19. In case of class lock, non-static synchronized methods come into picture. a) False b) true 20. Sleep releases the lock whereas wait does not. a. True b. False 21. What is the effect of issuing a wait () method on an object a) If a notify() method has already been sent to that object then it has no effect b) The object issuing the call to wait() will halt until another object sends a notify() or notifyAll() method c) An exception will be raised d) The object issuing the call to wait() will be automatically synchronized with any other objects using the receiving object. 22. One of the following method has to be invoked by the programmer in order to bring thread from born to runnable state. C: join A: start B: sleep D: run 23. Which of the following is the correct statement A: you can not notify a particular thread B: synchronized keyword can be applied to static methods

C: wait, notify methods can be called only from synchronized methods or block

D: all of the above.

PG DAC JAVA Technoligies-1 Question Bank



- 24. Select the correct statement:
- A. in case of intrinsic lock, when exception is raised in a synchronized code, lock is automatically released.
- B. in case of Reentrant lock, when exception is raised lock is automatically released.
- C. Both A and B.
- D. None of these.
 - 25. Threads are lightweight as compare to processes

A. True

B. false

- 26. The method used to register thread with JVM scheduler
 - A. run

C. register

B. start

D. none of the above

- 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
 - a) Run
 - 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____
       A. Singleton
       B. Synchronized
       C. Thread-Safe
       D. none of the above
       method makes caller thread wait till this thread die.
   a. Wait
                            b. sleep
                                                 c. yield
                                                                       d. join
                                               Oops
1. What is the output?
public class Trial
{
       int num=10;
       void change(Trial ref)
```



PG DAC JAVA Technoligies-1 Question Bank

```
ref.num=20;
               ref=null;
       public static void main(String args[])
               Trial t=new Trial();
               t.change(t);
               System.out.println(t.num);
       }
}
A: 20
B: 10
C: NullPointerException
D: None of the above
2. Which of the following modifiers can be applied to Top Level classes?
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"); } } 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.



PG DAC JAVA Technoligies-1 Question Bank

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

B: woof burble





C: Compilation fails due to an error on line 3 14. Inner class gets access to A: outer class variables B: outer class variables only if we created outer class object in inner class. C: inner class variables only D: none of the above. 15. Which of the following is not a wrapper class? A: String B: Integer C: Boolean D: Character 16. What is the output? class A { int i,j; A() i=1; j=2;} public class Abc { public static void main(String[] args) { // TODO Auto-generated method stub A obj1=new A(); A obj2=new A(); System.out.println(obj1.equals(obj2)); } a. true b. false c. compiler error d. runtime error 17. Which of the following is not abstract? b) Collection a) Thread 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 c) private d) no modifier 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 object of type _

c) OutputStream

d) BufferedInputStream

b) PrintStream

a) InputStream





- 21. Which of the following statement is supported by an Anonymous inner class supports?
 - 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.
- 22. Which string instance method would return true when invoked liked this: a.method(b)

```
a.method(b)
where a="BUTTERfly" and b="butterFLY"
a) equalsIgnoreCase() b) toUpperCase() c) toLowerCase() d) equals()
```

- 23. Which of the following is an ability of Reflection API in java?
 - a. Determining the state of an object
 - b. Determining object validity
 - c. Determining duplicate classes
 - d. Determination of the class of an object
- 24. What is the difference between this() and super()?
 - a. super() constructor is invoked within a method of a class while this() constructor is used within the constructor of the sub class.
 - b. this() constructor is invoked outside a method of a class while super() constructor is invoked within the constructor of the sub class.
 - c. this() constructor is invoked within a method of a class while super() constructor is invoked outside the constructor of the sub class.
 - d. this() constructor is invoked within a constructor of a class while super() constructor is used within the constructor of the sub class.

```
25. What is the output of the following?
public class MyClass
       public static void main(String args[])
       StringBuffer sb1=new StringBuffer("Anurag");
       StringBuffer sb2=new StringBuffer("Anurag");
       String ss1="Anurag";
       System.out.println(sb1==sb2);
       System.out.println(sb1.equals(sb2));
       System.out.println(sb1.equals(ss1));
       System.out.println("Poddar".substring(3));
       }
}
a)
       False, true, true, dar
b)
       False, true, false, ddar
       Compiler error
c)
       false, false, dar
d)
```

26. Given following code, what will happen to the output? public class MyClass



```
{
       public static void main(String args[])
               String str1="hello";
               String str2="hel";
               String str3=str2+"lo";
               if(str1==str3)
                       System.out.println("str1 and str3 are
==");
               }
               else
                       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");
       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



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



 Native method can be synchron 	ıızea
---	-------

37. Main() function is invoked by

A. Programmer B. class_loader

C. jvm

a. True	b. False		
29. A class cannot be a. True	both abstract and final b. False		
30. String s1="hello"; a) s1==s2	String s2="hello"; which one b) s1.equals(s2)	will return true c) both a and b	
31. What is the correctile? a. package, import, package, import, package, class, d. package, class,	ort, class package ge, class	ass and package declaration when	found in a single
	inkError		
a. It should nob. It should cor	statement about Functional of contain default or static mentain only one abstract methentain more than one abstractese.	ethods od.	
34. Which operation i	s allowed on String class b c. &	d. &&	
35. Using reflection ua. Access privateb. Access privatec. Both a and bd. None	fields		
36. JRE contains			
A. Jvm			
B. jars C. dlls			
D. all of the above			





- D. none of the above
- 38. Compiler which converts bytecode to native code is
 - A. Jit_compiler
 - B. javac compiler
 - C. byte_compiler
 - D. none of the above
- 39. Data types in java are
 - A. Primitive_type
 - B. reference_type
 - C. both a and b
 - D. none of these
- 40. What is the correct order?
 - A. Linking_loading_initializing
 - B. loading_linking_initializiing
 - C. initializing_loading_linking
 - D. loading_initializing_linking
- 41. Address of next executing instruction is stored inside
 - A. method_area
 - B. stack
 - C. heap
 - D. PC_Register
- 42. Method area stores information about
 - A. Class bytecode
 - B. static_variables
 - C. method names
 - D. all of the above
- 43. In java objects are created on
 - A. Stack
 - B. heap
 - C. both A & B
 - D. none of the above
- 44. Which of the following statements is true?
 - A. Main is public
 - B. Main is static
 - C. Main accepts String[]
 - D. All of the above
- 45. According to the new version of java, along with byte, short, int , char following type is also allowed
 - A. Double
 - B. float
 - C. String
 - D. none of the above

PG DAC JAVA Technoligies-1 Question Bank



- 46. By-default value for the Reference type is:A. falseB. 0
 - D. none of these
- 47. Java does not support
 - A. pointers

C. null

- B. friend_keyword
- C. multiple inheritance
- D. all of the above
- 48. In java by default member functions are
 - A. static
 - B. virtual
 - C. final
 - D. all of the above
- 49. Just before object gets garbage collected following method is called
 - A. finalize()
 - B. gc()
 - C. main()
 - D. none of the above
- 50. In java the rule is
 - A. member variable must be initialized before use
 - B. local variable must be initialized before use
 - C. both a and b
 - D. none of these
- 51. What will happen if static modifier is removed from the signature of the main method?
 - A Compilation Error.
 - B RunTime Error: NoSuchMethodError.
 - C Program will compile and run without any output.
 - D Program will compile and run to show the required output.
- 52. Under what conditions is an object's finalize() method invoked by the garbage collector?
 - A When it detects that the object has become unreachable.
 - B As soon as object is set as null.
 - C At fixed intervalm it checks for null value.
 - D None of the above.
- 53. Can constructor be inherited?

A – True B - False

54. Under what conditions is an object's finalize() method invoked by the garbage collector? A – Just before object gets garbage collected.

B - As soon as object is set as null.



PG DAC JAVA Technoligies-1 Question Bank

C - At fixed intervalm it checks for null value. D - None of the above. 55. What is the output? public class test10 static void call(int x) x+=2;public static void main(String args[]) int num=0; call(num++); System.out.println(num); } A. 1 B. 2 C. 3 D. 0 56. Which of the following is the correct syntax for suggesting the JVM performs garbage collection. A. System.free (); B. System.setGarbageCollection (); C. System.out.get (); D. System.gc (); 57. Which of the following is not primitive data type? A. int B. boolean C. String D. float 58. Static member scope is A. They are created when the class is loaded at runtime. B. They are created when main get called. C. They are created when class object get created. D. They are created when class get modified. 59. What will be the result of attempting to compile and run the following code? public class test3 { static int a; int b; public test3()



PG DAC JAVA Technoligies-1 Question Bank

```
int c;
    c=a;
    a++;
    b+=c;
}
public static void main(String args[])
{
    new test3();
}
```

Select the one correct answer

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

SOCKET PROGRAMMING

- 1. Which of the following class allows Tcp Server to wait for client on a particular port?
- A: InetAddress
- B: ServerSocket
- C: Socket
- D: none of the above
- 2. One of the following port range is valid for Network programming in java
- A: 1 to 65535
- B: 1023 to 65535
- C: 1024 to 65535
- D: 0 to 1023
- 3. Which one is used to send packet over the network in case of UDP?
- A: DatagramPacket
- B: Socket
- C: DatagramServer
- D: DatagramSocket
- 4. Which of the following is Application level protocol?
- A: FTP
- B: HTTP
- C: JRMP
- D: all of the above
- 5. A ______ is an endpoint for communication between two machines.
- a) ServerSocket



- b) Socket
- c) DatagramSocket
- d) DatagramPacket
- 6. Which of the following class allows UDP Server to wait for client on a particular port?
- A: InetAddress
- B: DatagramSocket
- C: DatagramPacket
- D: none of the above
- 7. One of the following class is used to represent IP address of a machine.
- A: IPAddress
- **B: InetAddress**
- C: InternetAddress
- D: InternetPacketAddress
- 8. Which method is used to wait for client to get connected in TCP?
- A: accept
- B: receive
- C: wait
- D: socketWait
- 9. Which of the following is Application level protocol?
- A: TCP
- B: HTTP
- C: UDP
- D: all of the above
- 10. The class which is used to send the packet in case of UDP is
 - A. Socket
 - B. UDPSocket
 - C. UserDatagramPacket
 - D. UserDatagramSocket
- 11. The class which represents IP address of machine is
 - A. InternetAddress
 - B. IPAddress
 - C. InetAddress
 - D. none of the above
- 12. Which is Application layer
 - A. HTTP
 - B. FTP
 - C. SMTP
 - D. all of the above
- 13. method is used to wait for client request in UDP
 - A. Wait
 - B. receive
 - C. accept





	D.	none of these
14.	A. B. C.	method is used to wait for client request in TCP Wait receive accept none of these
15.	A. B. C.	e want to pass an object over network it should implement Runnable Serializable Cloneable none of these
16.	A. B. C.	class is used to make server wait for client request in TCP. Socket ServerSocket SocketInputStream none of these
17.	A. B. C.	d range of port number for a java application is 0 to 65535 1 to 65535 1024 to 65535 none of these
18.	A. B.	rshalling is Converting packets into data converting data into packets converting bytes into character
19.		is reliable . True B. false