Advanced Computing Training School NSG IT Park, Aundh Pune 411 007

Date: August 01, 2010



Native methods are also called as

- 1. class methods
- foreign methods
- 3, instance methods
- abstract methods



What will be the output of the following code public class Myclass

J2SE - Core Java (60 Minutes)

public static void main(String args[]){ RuntimeException rte=null; throw rte:

- Compile time error, because main method does not declare that it throws RuntimeException in its declaration.
- Compile time error, because it cannot throw rte.
- 3. The program will compile without an error.
- Code will compile without an error, and will 4. throw java.lang. RuntimeException when run.

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 ():
```

- Compile time error indicating that a class with any final methods must be declared final itself
- Compile time error indicating that you inherit from a class with final methods.
- 3. Run time error indicating that Base is not defined as final.
- Success in compilation and output of "amethod" at run time
- Which of these classes do not generate item event?
 - Checkbox
 - 2 CheckboxMenultern
 - Menultem
- Which of the following facilitate implementing listener interfaces?
 - **Event Listener**
 - 2 **Event Adapter**
 - 3 Event Handler
 - **Event Delegates**

```
After execution of the following code fragment,
what are the values of the variable x, a and b?
int x, a = 6, b = 7;
```

```
x = a++ + b++;
```

- x=15,a=7,b=8
- x=15,a=6,b=7 2
- x=13,a=7,b=8 3.
- x=13,a=6,b=7 4

Which of the following expression result in a positive value of x?

- int x = -1; x = x >>> 5; 1.
- int x = -1; x = x >>> 32; 2
- byte x = -1; x = x >>> 5; 3.
- int x = -1; x = x >> 5;

Which of the following statements is true?

- Transient methods may not be overridden.
- Transient methods must be overridden. 2.
- 3. Transient classes may not be serialized.
- Transient variables are not serialized. 4.
- Which of the following statement is true?
 - An Inner class may be declared private. 1. An Inner class may be declared static. 2
 - Construction of an inner class may require 3. an instance of the outer class.
 - All of the above

Which would be most suitable for storing data elements that must not appear in the store more than once, if searching is not a priority?

- Collection.
- List. 2
- 3. Set
- 4. Map

What will happen when you attempt to compile or run this code?

public class Mod

public static void main (String argv []) public static native void amethod ();

- Error at compilation: native method cannot 1. be static.
- Error at compilation native method must 2. return a value.
- Compilation but error at run time unless you have 3. made code containing native amethod available.
- Compilation and execution without error. What will happen when you attempt to compile or

run this code? private class Base {}

public class Vis transient int iVal;

public static void main (String elephant [])

- Compile time error: Base cannot be private. 2.
- Compile time error indicating that an integer cannot be transient.
- Compile time error transient not a data type. Compile time error malformed main method. 3.



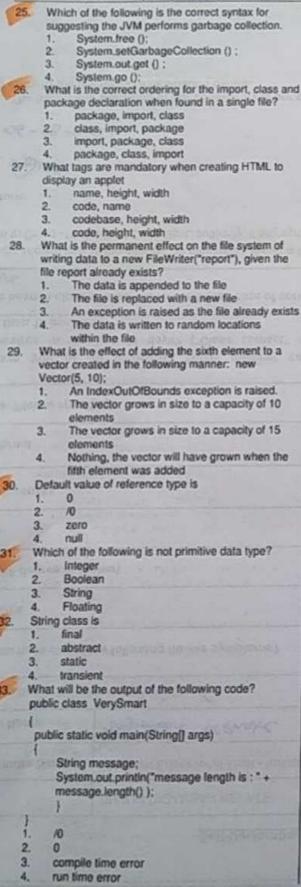
```
What will happen when you attempt to compile or
 run these two files in the same directory?
   // File P1.java
   package MyPackage ;
   class P1
       void afancymethod ()
           system.out.println ("What a fancy
   method");
     // File P2.java
     public class P2 extends P1
          afancymethod ();
        Both compile and P2 outputs "What a fancy
        method" when run.
        Neither will compile.
        Both compile but P2 has an error at run time.
        P1 compile cleanly but P2 has an error at
        compile time.
  You want to find out the vakue of the last element
  of an array. You write the following code. What will
  happen when you attempt to compile or run it?
    Public class MyAr
        Public static void main (String argv[])
               int [] I = new int [5] :
               System.out.println(I [5]);
         An error at compile time.
         An error at run time.
  2
         The value 0 will be output.
         The string "null" will be the output
  How do you indicate where a component will be
  positioned using FlowLayout?
         North, South, West, East,
         Assign a row /column grid reference.
         Pass a X/Y percentage parameter to the add
         method.
         Do nothing. The FlowLayout will position the
         component.
  How do you change the current layout manager for
  a container?
         Use setLayout method.
         Once created you cannot change the current
         layout manager of a component.
         Use the setLayoutManager method.
         Use the updateLayout method.
  Which of the following fields of the
   GridBagConstraints class?
         ipadx
         gridwidth
   What most closely matches the appearance when
   this code runs?
    import java.awt.";
    public class ComLay extends Frame
        public static void main (String argv [] )
```

```
Complay cl = new Complay () :
      Complay ()
          Panel p = new Panel ():
          p.setBackground (Color.pink);
          p.add (new Button ("One")) ;
          p.add (new Button ("Two")) ;
          p.add (new Button ("Three")) :
          add ("South",p);
          setLayout (new FlowLayout () );
          setSize (300, 300);
          setVisible(true):
      The buttons will run from left to right along
      the bottom of the frame.
      The buttons will run from left to right along
2.
      the top of the frame.
      The buttons will not be displayed.
3
      Only button three will show occupying all of
4.
      the frame.
Which statements are correct about the anchor field?
      It is a field of the GridBagLayout manager for
      controlling component placement
      It is a field of the GrigBagConstraints class
      for controlling component placement
      A valid setting for the anchor field is
      GridBagconstraints.NORTH.
      The anchor field controls the height of the
      components added to a container.
The size of the Swing component is defined in
which of the following units?
      Inches
      Centimeters
      Pixels
      Microns
The flow layout manager arranges components in
which of the following?
      Columns
      Rows
2
      Cells
      North, South, East and West
Which of the following protocols does Java use for
connection-oriented networking?
      UDP
      ICMP.
2
3.
      TCP.
      RPC
What is the goal of java's serialization facility?
      To provide data protection from concurrent access.
      To provide data persistence
      To provide remote access to data
      To improve performance.
Which two of the following interfaces are defined in
the java.beans package?
   PropertyChangeListener.
    EventListener.
   ActionListener.
D. VetoableChangeListener.
      A, B
      B, C
3
      B. D
      A, D
```

19.

20.

24



CDCC Whose precedence is highest 1 8 88 2 3. 8instanceof 4 Swing text field is encapsulated by extends JComboBox, ComboBox. JTextField, JComponent 2 JTextComponent, JComponent 2 JTextField, JComponent It is an error to catch the same type of exception in two different catch blocks associated with a particular try lock. True False The programmer must explicitly create the System.in and System.out objects. False What is the effect of issuing a wait() method on an object If a notify() method has already been sent to that object then it has no effect The object issuing the call to wait() will halt until another object sends a notify() or notifyAll() method 3. An exception will be raised The object issuing the call to wait() will be automatically synchronized with any other objects using the receiving object. Using a FlowLayout manager, which is the correct way to add elements to a container: add(component); add("Center", component); add(x, y, component); set(component); To delete a file, we can use an instance of class File. 40. False 2 A panel cannot be added to another panel. True False Frames and applets cannot be used together in the same program. True False 43. A final class may not have any abstract methods. True False static member scope is They are created when the class is loaded at runtime. They are created when main get called. They are created when class object get created. They are created when class get modified. 45. Wrapper class is part of package_ java.lang java.util 3 lava.io

lava.awt





Core Java (25 Minutes)

```
What is the result of this program?
class Over
 public static void main(String[] args){
      Under u = new Under():
     u.test():
 int test()(
      System.out.println("over");
      return 1:
class Under extends Over(
  short test(){
      super.test();
      System.out.println("Under");
      eturn 1;
```

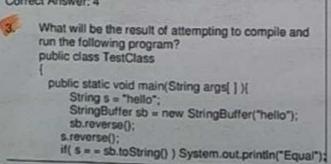
- This code compiles, runs and displays over followed by Under
- 2. This code compiles, runs and displays Under followed by over
- 3. This code does not compile
- 4. Code will compile but gives runtime error

Correct Answer: 3

Consider the following code in file Sample.java public class Sample implements IInt public static void main(String[] args){ Sample s = new Sample(); //1 int j = s.thevalue; 112 int k = IInt.thevalue: 1/3 int I = thevalue; 114 interface IInt int thevalue = 0; What will happen when the above code is compiled

- It will give an error at compile time at line //1
- 2. It will give an error at compile time at line //2.
- 3. It will give an error at compile time at line //3
- 4. It will compile and run without any problem.

Correct Answer: 4



```
System.out.println("Not Equal");
    1. It will print "Equal"
    2. It will print 'Not Equal'
       Compilation error as there is no reverse ()
        method in class String
    4. Runtime error
Correct Answer: 3
      What will be the output of the following code?
      public class exception demo
        public static void main(String str[]){
          int i=1, j=1;
          try
                i++;
                j-;
if(i/j > 1)
                i++;
          catch(Exception e)
            { System.out.println("Exception"); }
          catch(ArithmeticException e)
            { System.out.println("arithmetic exception"); }
          catch(ArrayIndexOutOfBoundsException e)
           ( System.out.println("Array index exception"); }
          finally
                System.out.println("finally"); }
          System.out.println("after exceptions");
       Give compilation error
   2. arithmetic exception
       arithmetic exception finally
    4. None of the above
Correct Answer: 1
      Suppose you create a class Cylinder to be a
      subclass of Circle. Analyze the following code:
      class Cylinder extends Circle(
        double length;
        Cylinder(double radius){
            Circle(radius);
```

- The program compiles fine, but you cannot create an instance of Cylinder because the constructor does not specify the length of the cylinder.
- 2. The program has a syntax error because you attempted to invoke the Circle class's constructor
- 3. The program compiles fine, but it has a runtime error because of invoking the Circle class's constructor illegally.
- 4. None of the above

Correct Answer: 2



Analyze the following code: public class Test(int x static (x++;)

- 1. The program cannot be compiled, because the statement x++ must be placed inside a method or a constructor.
 - 2. When you construct an instance of Test, the value of x becomes 0.
 - 3. The program cannot be compiled, because x is non-static, but is used in a static initialization block.
 - 4. When you construct an instance of Test, the value of x becomes 1.

Correct Answer: 3



If you will run following code what will be the result?

public class RTExcept (public static void throwit () { System.out.print("throw it "); throw new RuntimeException():

public static void main(String [] args) { System.out.print("hello"); throwit();

catch (Exception re) { System.out.print("caught"); finally (

System.out.print("finally"); System.out.println("after");

1. hello throw it caught finally after

2. hello throw it RuntimeException caught after

3. Compilation fails

4. hello throw it caught finally after RuntimeException

Correct Answer: 1



Which collection class allows you to access its elements by associating a key with an element's value, and provides synchronization?

1. java.util.SortedMap

java.util.TreeMap

java.util.TreeSet

4. java.util.HashTable

Correct Answer: 4

- Which one is true about interface and abstract
 - 1. Abstract class can have only instance method and default behavior. Interface can declare constants and can have instance method but cannot implements default behavior.
 - 2. An interface has all public members and abstract

class has private, protected etc members

3. Both 1 & 2

4. None of the above

Correct Answer: 3



10. Objects are passed by value or reference?

1. By value

2. By reference

It depends upon how you specify
 None of the above

Correct Answer: 1



11. If you write System.exit(0) at the end of try block, will the finally block still execute?

2. No

It depends upon return statement

4. Can't say

Correct Answer: 2

12. Which is a keyword?

1. string

2. unsigned

3. Float

4. this

Correct Answer: 4

13. Which is valid declaration of a String?

String s2 = 'null';

2. String s3 = (String) 'abc';

String s1 = null;

String s4 = (String) "\ufeed";

Correct Answer: 3

Which is valid declaration within an interface? 1. public static short stop = 23

2. protected short stop = 23

transient short stop = 23;

final void madness(short stop);

Correct Answer: 1

class Equalsi public static void main(String[] args){ int x= 100; double y = 100.1; Boolean b = (x=y);System.out.println(b);

1. true

false

Compilation fails

An exception is thrown at runtime

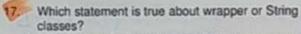
Correct Answer: 3

Line 1. long test(int x, float y) Line 2. (Line 3.

The above program will not compile by inserting which of the following line?

- 1. return x;
- return (long) x/y
 return(int) 3.14d
 return (long)y;

Correct Answer: 2



- if x and y refer to instances of different wrapper classes, then the fragment x.equals(y) will cause a compiler failure.
- 2. if x and y refer to instances of different wrapper classes, then x==y can sometimes be true.
- 3. If x and y are String references and if x.equals(y) is true, then x==y is true.
- If x,y and z refer to instances of wrapper classes and x.equals(y) is true, and y.equals(z) is true, then z.equals(x) will always be true.

Correct Answer: 4

- String x = "xyz"; x.toUpperCase(); (* 9982) (_moss coupsel_ service point in a querioce of sex fine out surper tot String y = x.replace('Y', 'y'); particle to the country of the cou y = y + "abc"System.out.println(y); What is the result?
 - abcXyz
 - abcxyz
 - 3. xyzabc
 - 4. compilation fails

Correct Answer: 3

- String a = "newspaper"; a = a + b; char b = a.charAt(1); a = a + b; System.out.println(a); What is the result?
 - 1. apa
 - app
 - apea
 - 4. apep

Correct Answer: 2

- public class SortExample(public static void main(String [] args){ double value = -9.0; System.out.println(Math.sqrt(value));
 - 3.0
 - 2. -3.0
 - NaN
 - Compilation fails

Correct Answer: 3

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING



Advanced Computing Training School NSG IT Park, Aundh Pune 411 007

Date: January 22, 2012

J2SE - Core Java (60 Minutes) What is output? Which of the following statement is true? -1 1. An object will be garbage collected when it 0 2 StringIndexOutOfBoundsException becomes unreachable 3 An object will be garbage collected if it has ArrayIndexOutOfBoundsException Which of the following modifiers can be applied to a null assigned to it The finalize method will be run before an constructor? object is garbage collected Private Garbage collection assures that a program abstract 2 will never run out of memory 3. volatile The command 'codebase' is used in applets All of the above When the applet class file is not in the same Which of the following class is thread safe? directory ArrayList 1 When the applet class file is in the same directory 2 HashMap When we need to get the parameters of the applet 3. Hashtable None of the above HashSet Given the following code, which of the following dass DAC (option if inserted after the comment I/here will allow public static void main(String[] s) { the code to compile without error? String s1 = "A", s2 = " B ", s3 = "C"; interface Remote(s2.trim(); s3.concat("D"); public void test(); System.out.print(s1 + s2 + s3); public class Moodle(public static void main(String argv[]){ What is the result of the program? Moodle m = new Moodle(); Prints: ABC Prints: ABC public void go(){ Prints: ABCD 3 //here Prints: ABDC class A (A(int i) {)} // 1 class B extends A {} // 2 Remote r = new Remote(){ public void test(){}); Which of the following statement is true? 2 Remote remote = new Remote(); The compiler attempts to create a default test(): constructor for class A this.main(); No any error, everything will work fine Which of the following initializes boolean primitive? Compile-time error at 1 3 Boolean flag=true; Compile-time error at 2 boolean flag=true; Inner classes can not declare boolean flag=TRUE; static Boolean flag=TRUE; 2 protected Which of the following is not correct? final int a [][] = new int [20][20]; 4 transient int [] a [] = new int [20][]; Please select a true statement about delete() int [][] a = new int [10][]; method of java.io.File. int [][] a = new int [][10]; It can delete a file instanceof operator can be used with It can delete an empty directory Arrays Both of the above Final Class Neither of the above Classes 15 Entries are organized as key/value pairs All of the above Duplicate entries replace old entries The switch() construct is used to make a choice Which interface of the java.util package offer the based upon_ specified behaviour? char value List An int value Map A String value None of the above 3 Set public class CDAC(None of the above Which type of variables cannot be serialized? public static void main(String a[])(String s1 = "Sun"; transient System.out.println(s1.substring(5)); final private

None of the above

4

variables



There are two computers are connected to internet, one computer is trying to open a socket connection to read the home page of another computer, what are the possible exceptions thrown while connection and reading InputStream?

IOException

MalformedURLException

Both 1 and 2

None of the above

18

class CDAC (public static void main (String[] args) { StringBuffer sb1 = new StringBuffer("ABC"); StringBuffer sb2 = new StringBuffer("ABC"); System.out.print("Prints:"+(sb1==sb2)+","+sb1.eq uals(sb2));

What is the result of attempting to compile and run the program?

Prints: false, true

Prints: false, false

Prints: true, false

Prints: true, true

How many methods are defined in the Cloneable interface?

None

One

Two

None of the above

The term "instance variable" is another name for

Static field

Non-static field

Local variable 3

None of the above

Which of the following modifier can be applied to a class that is not a nested class?

abstract

private

static 3

Final

Which of these lists contains at least one word that is not a Java keyword?

abstract, default, if, private, this

do, implements, protected, boolean, throw

import, break, double, exception, throws

byte, else, return, transient

class X implements Runnable public static void main(String args[]) /* Missing code? */ public void run() {}

Which of the following line of code is suitable to start a thread?

Thread t = new Thread(X):

Thread t = new Thread(X); t.start();

Thread t = new Thread(); x.run();

X run = new X(); Thread t = new Thread(run); Which cannot directly cause a thread to stop executing?

Calling notify() method on an object

Calling the SetPriority() method on a Thread object

Calling the wait() method on an object Calling read() method on an InputStream object

What will happen if you register more than one ActionListener in a button component?

Compile time error

Runtime error 2

All the registered listeners will be notified 3 when the button is clicked

The last registered listener will be notified when the button is clicked

Which of the following is the valid placement constraint when using BorderLayout?

The string "NORTH"

BorderLayout.MIDDLE 2

BorderLayout.BOTTOM 3.

BorderLayout.CENTER 4

Which of the following layout managers can only 27. accommodate a limited number of components?

BorderLayout

2 FlowLayout

CardLayout

None of these

Which method must be defined by a class implementing the java.lang.Runnable interface?

void run()

public void run()

public void start()

void run(int priority)

Which of the following subclass of the Component class will display the MenuBar?

Window, Applet

Applet, Panel 2

Frame 3.

Menu, Dialog

There are 20 threads are waiting in the waiting pool with same priority, how can you invoke 15th thread from the waiting pool?

By calling resume() method

Calling call() method

By calling notify(15) method on the thread instance

None of the above

What will be the output of the program? try int x = 0;

> int y = 5/xcatch (Exception e) System.out.println("Exception"): catch (ArithmeticException ae)

System.out.println(" Arithmetic Exception");

System.out.println("finished"):

Finished

Compilation fails

Arithmetic Exception void start() {

A a = new A():

B b = new B():

b = null; /* Line 5 */

a = null; /* Line 6 */

System.out.println("start completed"); /* Line 7 */

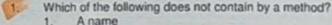
```
None of the above
When is the B object created in line 3, eligible for
                                                            40
                                                                   Which of the following keywords can be applied to
                                                                   constructors?
garbage collection?
                                                                          private
      after line 5
1.
      after line 6
                                                                   2
                                                                          public
2
                                                                          void
3.
      after line 7
                                                                   3.
                                                                          All the above
      There is no way to be absolutely certain
Which of the following would compile without error?
                                                                   Can we find the list of all the class and interface
                                                            41
      int a = Math.abs(-5);
                                                                   using java reflection?
      int b = Math.abs(5.0);
                                                                         Yes
      int c = Math.abs(5.5F);
                                                                         No
3
                                                                   2
      int d = Math.abs(5L):
                                                                   3
                                                                         Can't say
Which one of the keyword cannot be used with
                                                                         None of the above
                                                                   In a RMI Client Program, which of the exceetion
instance variables?
      transient
                                                                   might be handled?
      volatile
2
                                                                         MalFormedURLException
3
      abstract
                                                                         NotBoundException
                                                                   2
      None of the above
                                                                   3
                                                                         RemoteException
This of the following code correctly creates an array
                                                                         All of the above
of four initialized string objects?
                                                                  What is the default port used by RMI Registry?
       String players[] = new String[4];
                                                                         1024
                                                                   1
       String players[] = {"",",",");
2
                                                                  2
                                                                         1099
       String players[];
3.
                                                                  3
                                                                         8080
       players = new String[4];
                                                                         0127
       None of the above
                                                                  Which are the valid ways to create DataInputStream
 public class Myfile
                                                                  streams?
                                                                        new DataInputStream():
   public static void main (String[] args)
                                                                        new DataInputStream("in.dat", "r");
                                                                  2
                                                                  3
                                                                        new DataInputStream("in.dat")
      String biz = args[1];
                                                                        new DataInputStream(new FileInputStream("in dat");
      String baz = args[2];
                                                                  Which of the following is not a Structural Patterns?
      String rip = args[3];
                                                                        Adapter pattern
      System.out.println("Arg is " + rip);
                                                                        Bridge Pattern
                                                                        Command Pattern
                                                                  3
                                                                        Composite Pattern
 Select how you would start the program to cause it
                                                                  What allows the programmer to destroy an object x?
 to print: Arg is 2
                                                                        x.delete()
       java Myfile 222
                                                                  2
                                                                        x.finalize()
       java Myfile 12234
                                                                        Runtime.getRuntime().gc()
                                                                  3
       java Myfile 1322
                                                                        Only the garbage collection system can
                                                                  4.
       java Myfile 0 1 2 3
                                                                        destroy an object
 Which of the following statement is false?
                                                                 Which of the follow are true statements?
       Interface methods cannot be static
                                                                        An anonymous class can extend only the
       Interface methods must have a return type of void
                                                                        Object class
        An interface cannot extend another class
                                                                       An anonymous class can not implement an interface
        An interface method cannot be marked as final
                                                                 3
                                                                       An anonymous class is implicitly final
 What will be the output of the program?
                                                                       An anonymous class can be abstract
 class Equals
                                                                 Is it possible to use more than one design pattern in
                                                          48
                                                                 application?
    public static void main(String [] args)
                                                                       Yes
                                                                 2
                                                                       No
      int x = 100:
                                                                       Can't say
                                                                 3.
      double y = 100.1;
                                                                       None of the above
      boolean b = (x = y); /* Line 7 */
                                                                 The "Singleton" design pattern
      System.out.println(b):
                                                                       Creates only one class of a particular type
                                                                       Allows unified access to a single instance of a
                                                                 2
                                                                       particular class
        True
                                                                       Should always be used in place of global variables
                                                                 3
        False
                                                                       All of the above
        Compilation fails
                                                          50
                                                                Which exception is thrown by the read() method of
        An exception is thrown at runtime
 Which modifer is uesd to stop overridding a method?
                                                                 InputStream class?
                                                                       Exception
       final
                                                                2
        static
                                                                       IOException
                                                                       FileNotFoundException
  3
        abstract
```

ReadException

Advanced Computing Training School NSG IT Park, Aundh Pune 411 007

Date: July 31, 2009

J2SE - Core Java (60 Minutes)



- 2 A list of input names
- A body of executable code 3.
- None of the above

When we can declare a method as an abstract method?

- When we have to want child class to implement the behavior of the method
- 2. When we do not want child class to implement the behavior of the method
- 3. When we have to want super class to implement the behavior of the method
- When we do not want super class to implement the behavior of the method
- Which of the following is not an access modifier in java?
 - Public 1.
 - 2. Protected
 - 3. Default
 - None of the above

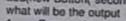
Which statement is false regarding Abstract class?

- We can call an abstract method from a Non abstract method in a Java abstract class.
- 2 Abstract classes will provide the basic functionality of your application.
- A class may implement several interfaces 3. also in case of abstract class a class may extend many abstract classes.
- Child class, which inherited this class, will provide the functionality of the abstract methods in abstract class.
- Exceptions which must be caught using try.. catch() 5. block or we should throw the exception using throws clause is called as
 - **Checked Exceptions**
 - Unchecked Exceptions 2
 - Both 1 and 2
 - None of the above
- Is there any limit to the length of an identifier?
 - No
 - 2 Yes, 65535 characters is the maximum length
 - Yes
 - None of the above
 - Can we reference the implicit instance variable this from with in a class method?
 - Yes
 - Yes but only in case of abstract class 2
 - 3. No
 - None of the above
- Which statement is false regarding ARRAY in java?
 - We can create an array with size determine at
 - We can not change the size of an array once created
 - Both 1 and 2
 - None of the above
- Which package by default included in java application?
 - util
 - io
 - lang
 - applet

- Which statement from the following is false regarding overriding?
 - return type and arguments of both methods must be identical
 - 2. Overriding method must be having same or more accessibility as compare to overridden method
 - 3. Overriding methods should not throw the checked exceptions not thrown by overridden methods
 - None of the above
- In which case we write one try and many catch blocks in a program?
 - Most generic class should precede most specific class
 - Most specific class should precede most 2. generic class
 - 3. There is no such rule
 - Compiler will report an error if you do so. 4. class B extends A and B overrides the dostuff() method inherited from A. which method will get called if you say :

A ob= new B(); ob.dostuff();

- dostuff() of B
- dostuff() of A
- 3. There will be ambiguity
- None of the above
- Can we create one or more package declaration per source file?
 - No you can have only one package declaration per file
 - 2. Yes specify multiple package declaration at starting of the program
 - Yes you can use scope braces to show which package definition holds good for respected blocks
- None of the above
- How can you achieve object locking in Threads?
- Using join method
 - 2 Using Serializable
 - 3. Using Synchronized keyword
 - 4 All of the above
- What is the use of flush method?
 - Flushes any data that is in the buffer to the file. 2.
 - Flushes any data that is in the buffer to the file and closes the stream.
 - 3. Both 1 and 2
 - None of the above
- String s1="hello"; String s2="hello"; which one will return true?
 - 18 S1==52
 - s1.equals(s2)
 - Both 1 and 2 3.
 - None of the above
- Keeping the default layout of Frame if we give, add(new Button("first")); add(new Button("second"));



- Frame with only "first " button
- Frame with only "second" button Frame with both the buttons
- 3
- None of the above

- If you are not in a paint() method ,how do you create Graphics class reference
 - new Graphics()
 - Graphics class has got all static methods, hence no need to create the reference of Graphics class
 - GetPaint() 3.
 - getGraphics() of component class
- What should be done to execute a thread for an object derived from the Thread class?
 - The run() method should be directly invoked on the Object.
 - The start() method should be directly invoked on the Object.
 - The init() method should be directly invoked 3. on the Object.
 - The creation of the object using the new operator would create a new thread and invoke its run() method.
- Select the correct statement for assert keyword in java.
 - 1 If a Java class contains assert statements, then it must be compiled with - 1.4 option.
 - When a program having assertions is run, assertion option must be specified, otherwise the assertions get ignored.
 - A possible syntax of assert statement is assert logical_expression If logical_expression evaluates to true. the program generates an AssertionError.
 - The program terminates on its first AssertionError
- Which of the following containers use a border Layout as their default layout?
 - Window
 - Frame
 - 3. Dialog
 - All of the above
- Which statement is false from the following?
 - Objects that subclass the Observable class maintain a list of observers.
 - When an Observable object is updated it invokes the update() method.
 - The Observer interface is not implemented by objects that observe Observable objects.
 - All of the above
- Can we override the equals method or clone method from class Object to take a parameter or return a value of the type that we specify?
 - No
 - 2. No, we can override a method from a superclass only if our subclass's method has the same signature and return type.
 - 3 Yes

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- None of the above
- Which of the following statement is false?
- The super keyword works hand in hand with inheritance.
- 2. Inheritance gives a class implicit access to its super classes.
- 3. The super keyword is not essential to the workings of constructors.
- The automatic default constructor has no

- Which of the following statement is true regarding an interface?
 - The class provides implementations for all the methods in the interface.
 - The class does not declare explicitly that it implements the interface.
 - 3. We can instantiate an interface.
 - None of the above
 - Which operator is used to test whether the runtime type of its assignment compatible with its second argument?
 - sizeof()
 - 2. instanceof()
 - 3. clone()

26.

- None of the above 4
- Which of the following is false statement?
 - We can use relational operator to create a Boolean expression that compares two operands.
 - If we compare two numeric operands that are not of the same type, Java will convert the less precise operand to the type of the more precise operand.
 - A boolean variable evaluates to a Boolean 3. value of true or false.
- None of the above
- All exceptions are subclasses of the
 - Exception class
 - 2. RuntimeException
 - 3. ArithmeticException
 - All of the above
- What will be the output of the following code? class example (

String mystring = "hello";

public static void main(String[] args) (System.out.println(myString):

- hello
- 2 Neill
- 3 Compiler Error
- **Runtime Error**
- What will be the output of the following code? class example

String mystring = "hello"; public static void main(String[] args) (Example obj = new Example(); System.out.println(obj.myString);

- hello
- Null
- Compiler Error
- **Auntime Error**
- What is the return type of the method getSource() 31. defined in EventObject class.

 - Object
 - 3. long
 - Component
- Which method identifies the type of a generated event? 32.
 - getSource()
 - getType()
 - getEventType()
 - getID()

```
2.
            8
            22
      3.
            20
      What will be the output?
      int c[]=new int[5];
      int a[]:
      a-c;
            It will work
      1.
            Compiler Error
      2.
            Runtime Error
      3.
            None of the above
      What will we do to put more than one applet in a
39
            No we can not do this
      2.
             Include a separate APPLET tag for each
             applet we wish to put on our web page.
             In single APPLET tag we will add all applet.
      3.
            None of the above
      4.
      How can we initialize an applet?
40
            No we can not initialize it
      1.
      2.
            Using constructor
            Use the init method
      3.
             Both 2 and 3
      4.
      Select false statement from the following.
             We can put different applets on the same page.
             We cannot put multiple copies of the same
      2.
             applet in one page.
             We can specify a name in each APPLET tag
      3.
             so that the different applets on the page can
             locate and communicate with each other.
             All of the above
      int button Count=0:
42.
      Panel centerPanel = new Panel();
      void addButton() (
       ++buttonCount;
      centerPanel .add(new Button("button" +
      buttonCount));
      centerPanel.validate();
      In above code what is the purpose of using validate
      method?
             It activates its layout manager to take the new
             component into account.
             It deactivates its layout manager to take the
      2.
             new component into account.
             To add more buttons in to panel
      3.
             None of the above
      How can we restart a stopped thread?
             Using start() method.
             The thread can not be run again.
      2
      3.
             Using run() method
             None of the above
      public class MyOuter (
        public static class Mylnner
            public static void hello() ( )
       which statement, if placed in a class other than
       myOuter or myInner, instantlates an instance of the
       nested class?
             MyOuter.MyInner m = new
MyOuter.MyInner();
       2.
             MyOuter.MyInner mi = new MyInner();
```

MyOuter m = new MyOuter(); MyInner mi = new MyOuter.MyInner();

3.



Assume the following method is properly synchronized and called from a thread A on an object B: wait(2000);

After calling this method, when will the thread A become a candidate to get another turn at the CPU?

- After thread A is notified, or after two seconds
- After the lock on B is released, or after two seconds.
- 3. Two seconds after thread A is notified.
- Two seconds after lock B is released.
- 46. What is the function of method getContentPane()?
 - Returns content object.
 - Returns content object that represents the container pane.
 - Returns Container object that represents the content pane.
 - 4. All of the above
- 47. In which package, The AWT classes are stored?
 - 1. javax.awt
 - 2. java.util
 - 3. java.AWT
 - 4. java.awt
- 48. What is the purpose of calling seek(long) function?
 - It sets the pointer to the specified number of bytes from the beginning of the file.
 - It sets the pointer to the specified number of bytes from the end of the file.
 - Returns a long for the number of bytes in the file.
- 4. All of the above

Which statement is correct regarding Synchronization?

- Methods as well as variables can be Synchronized.
- 2. All methods in a class must be Synchronized.
- If two methods are Synchronized in a class, only one thread can be accessing one of the two methods.
- 50.
- If a thread goes to sleep, it releases its locks.
 Which statement is correct regarding Inner class?
- A regular Inner class is declared inside the curly braces of another class but cannot out side any method or other code block.
- An Inner class cannot mark with an access modifier.
- To instantiate an inner class, it is not necessary that every time we should have reference to an instance of the outer class.
- The only modifiers you can apply to a methodlocal inner class are abstract and final.