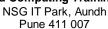


CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Advanced Computing Training School





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J2SE – Core Java (60 Minutes) What is output? 1. Which of the following statement is true? 1. -1 An object will be garbage collected when it 2. becomes unreachable 3. StringIndexOutOfBoundsException 2. An object will be garbage collected if it has ArrayIndexOutOfBoundsException 4. null assigned to it Which of the following modifiers can be applied to a 9. 3. The finalize method will be run before an constructor? object is garbage collected Private 1. 4. Garbage collection assures that a program 2. abstract will never run out of memory 3. volatile 2. The command 'codebase' is used in applets _ 4. All of the above When the applet class file is not in the same 10. Which of the following class is thread safe? ArrayList 1. 2. When the applet class file is in the same directory 2. HashMap 3. When we need to get the parameters of the applet 3. Hashtable 4. None of the above HashSet 4. Given the following code, which of the following 3. class DAC { 11. option if inserted after the comment //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 1. 2. Prints: A B C public void go(){ 3. Prints: ABCD //here Prints: ABDC 4. } class A {A(int i) {}} // 1 12. } class B extends A {} // 2 1. 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 1. 3. test(); constructor for class A 4. this.main(); 2. No any error, everything will work fine Which of the following initializes boolean primitive? 4. 3. Compile-time error at 1 Boolean flag=true: 1. 4. Compile-time error at 2 2. boolean flag=true; 13. Inner classes can not declare variables 3. boolean flag=TRUE; 1. static 4. Boolean flag=TRUE; 2. protected 5. Which of the following is not correct? 3. final int a [][] = new int [20][20]; 1. transient 2. int [] a [] = new int [20][]; Please select a true statement about delete() 14. 3. int [][] a = new int [10][];method of java.io.File. int [][] a = new int [][10]; 4. It can delete a file 1. 6. instanceof operator can be used with 2. It can delete an empty directory Arravs 1. 3. Both of the above 2. Final Class Neither of the above 4. 3. Classes 15. Entries are organized as key/value pairs a. 4. All of the above Duplicate entries replace old entries b. 7. The switch() construct is used to make a choice Which interface of the java.util package offer the based upon specified behaviour? char value 1. List 1. 2. An int value 2. Map 3. A String value 3. Set None of the above None of the above 4. 8. public class CDAC{ Which type of variables cannot be serialized? 16. public static void main(String a[]){ transient 1. String s1 = "Sun"; 2. final System.out.println(s1.substring(5)); 3. private }

4.

None of the above



- 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** 1.
 - 2. MalformedURLException
 - 3. Both 1 and 2
 - None of the above 4.
- 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 2.
- Prints: true, false 3.
- Prints: true, true 4.
- 19. How many methods are defined in the Cloneable interface?
 - 1. None
 - 2. One
 - 3. Two
 - 4. None of the above
- 20. The term "instance variable" is another name for _
 - 1. Static field
 - 2. Non-static field
 - 3. Local variable
 - None of the above
- Which of the following modifier can be applied to a 21. class that is not a nested class?
 - abstract 1.
 - 2. private
 - 3. static
 - Final 4.
- 22. Which of these lists contains at least one word that is not a Java keyword?
 - abstract, default, if, private, this 1.
 - 2. do, implements, protected, boolean, throw
 - import, break, double, exception, throws 3.
 - byte, else, return, transient 4.
- class X implements Runnable 23.

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

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

- 1 Thread t = new Thread(X);
- 2. Thread t = new Thread(X); t.start();
- 3. Thread t = new Thread(); x.run();
- X run = new X(); Thread t = new Thread(run);
- Which cannot directly cause a thread to stop executing? 24.
 - Calling notify() method on an object
 - Calling the SetPriority() method on a Thread object 2.
 - 3. Calling the wait() method on an object
 - 4. Calling read() method on an InputStream object

- 25. What will happen if you register more than one ActionListener in a button component?
 - Compile time error 1.
 - Runtime error 2.
 - 3. All the registered listeners will be notified when the button is clicked
 - 4. The last registered listener will be notified when the button is clicked
- Which of the following is the valid placement 26. constraint when using BorderLayout?
 - The string "NORTH" 1.
 - BorderLayout.MIDDLE 2.
 - 3. BorderLayout.BOTTOM
 - BorderLayout.CENTER
- 27. Which of the following layout managers can only accommodate a limited number of components?
 - 1. BorderLayout
 - 2. FlowLayout
 - CardLayout 3.
 - None of these
- 28. Which method must be defined by a class implementing the java.lang.Runnable interface?
 - void run() 1.
 - 2. public void run()
 - 3. public void start()
 - 4. void run(int priority)
- 29. Which of the following subclass of the Component class will display the MenuBar?
 - Window, Applet 1.
 - Applet, Panel 2.
 - Frame 3.
 - 4. Menu, Dialog
- 30. 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 1.
 - Calling call() method 2.
 - By calling notify(15) method on the thread instance 3.
 - None of the above
- 31. What will be the output of the program?

```
try
{
  int x = 0;
  int y = 5 / x;
catch (Exception e)
  System.out.println("Exception");
catch (ArithmeticException ae)
  System.out.println(" Arithmetic Exception");
System.out.println("finished");
1.
      Finished
2.
      Exception
```

- 3. Compilation fails
- Arithmetic Exception
- void start() { 32.

```
A a = new A();
```

Bb = new B():

a.s(b);

b = null; /* Line 5 */

a = null: /* Line 6 */

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



```
4.
                                                                               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
      garbage collection?
                                                                         constructors?
            after line 5
      1.
                                                                         1.
                                                                               private
      2.
            after line 6
                                                                         2.
                                                                               public
      3.
            after line 7
                                                                         3.
                                                                               void
      4.
            There is no way to be absolutely certain
                                                                         4.
                                                                               All the above
33.
      Which of the following would compile without error?
                                                                  41.
                                                                         Can we find the list of all the class and interface
                                                                         using java reflection?
            int a = Math.abs(-5);
      1.
            int b = Math.abs(5.0);
                                                                               Yes
      2.
                                                                         1.
      3.
            int c = Math.abs(5.5F):
                                                                         2.
                                                                               No
            int d = Math.abs(5L);
                                                                         3.
                                                                               Can't say
      Which one of the keyword cannot be used with
                                                                               None of the above
34.
                                                                         4.
      instance variables?
                                                                  42.
                                                                         In a RMI Client Program, which of the exception
            transient
                                                                         might be handled?
      1
      2.
            volatile
                                                                               MalFormedURLException
                                                                         1.
                                                                               NotBoundException
      3.
            abstract
                                                                         2.
            None of the above
                                                                               RemoteException
                                                                         3.
      This of the following code correctly creates an array
35.
                                                                         4.
                                                                               All of the above
      of four initialized string objects?
                                                                  43.
                                                                         What is the default port used by RMI Registry?
            String players[] = new String[4];
                                                                         1.
                                                                               1024
            String players[] = {"","","",""};
      2.
                                                                         2.
                                                                               1099
      3.
            String players[];
                                                                         3.
                                                                               8080
            players = new String[4];
                                                                         4.
                                                                               0127
                                                                         Which are the valid ways to create DataInputStream
      4.
            None of the above
                                                                  44.
36.
      public class Myfile
                                                                         streams?
                                                                               new DataInputStream();
                                                                         1.
         public static void main (String[] args)
                                                                         2.
                                                                               new DataInputStream("in.dat", "r");
                                                                               new DataInputStream("in.dat")
                                                                         3.
                                                                               new DataInputStream(new FileInputStream("in.dat");
           String biz = args[1];
           String baz = args[2];
                                                                  45.
                                                                         Which of the following is not a Structural Patterns?
           String rip = args[3];
                                                                         1.
                                                                               Adapter pattern
           System.out.println("Arg is " + rip);
                                                                         2.
                                                                               Bridge Pattern
        }
                                                                         3.
                                                                               Command Pattern
                                                                               Composite Pattern
                                                                         4.
      Select how you would start the program to cause it
                                                                  46.
                                                                         What allows the programmer to destroy an object x?
      to print: Arg is 2
                                                                               x.delete()
                                                                         1.
            java Myfile 222
                                                                         2.
                                                                               x.finalize()
      1.
            java Myfile 1 2 2 3 4
      2.
                                                                         3.
                                                                               Runtime.getRuntime().gc()
      3.
            java Myfile 1 3 2 2
                                                                               Only the garbage collection system can
                                                                         4.
            java Myfile 0 1 2 3
                                                                                destroy an object
37.
      Which of the following statement is false?
                                                                  47.
                                                                         Which of the follow are true statements?
      1.
            Interface methods cannot be static
                                                                               An anonymous class can extend only the
      2.
            Interface methods must have a return type of void
                                                                               Object class
                                                                         2.
            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?
                                                                         4.
                                                                               An anonymous class can be abstract
38.
                                                                         Is it possible to use more than one design pattern in
      class Equals
                                                                  48.
                                                                         application?
         public static void main(String [] args)
                                                                         1.
                                                                               Yes
                                                                         2.
                                                                               No
                                                                         3.
           int x = 100;
                                                                               Can't say
                                                                               None of the above
           double y = 100.1;
                                                                         4.
           boolean b = (x = y); /* Line 7 */
                                                                  49.
                                                                              Singleton" design pattern
           System.out.println(b);
                                                                         1.
                                                                               Creates only one class of a particular type
        }
                                                                         2.
                                                                               Allows unified access to a single instance of a
                                                                               particular class
      }
      1.
                                                                         3.
                                                                               Should always be used in place of global variables
            True
      2.
            False
                                                                               All of the above
      3.
            Compilation fails
                                                                  50.
                                                                         Which exception is thrown by the read() method of
                                                                         InputStream class?
            An exception is thrown at runtime
      Which modifer is uesd to stop overridding a method?
                                                                               Exception
39.
                                                                         1.
                                                                               IOException
      1.
            final
                                                                         2.
                                                                               FileNotFoundException
      2.
            static
                                                                         3.
```

4.

ReadException

DAC 0811 J2SE Re-Examination

abstract

3.