Core Java Assessment

Question 1

Predict the output of the following code snippet:

public class B {

int a;

public static void main(String[] args) {

System.out.println(a);

}

}

a. compile and run successfully

b. throws run time exception

c. compilation fails due to instance members cannot be accessed directly in static block/method

d. compilation fails due to instance var is not initialized

Question 2

5.try {

6. System.out.println(“b”);

7. //exception is raised here

8. System.out.println(“c”);

9. }

catch (Exception e2) {System.out.print("d");}

If some sort of exception is raised at line 7, which output is possible?

1. b
2. d
3. bc
4. bd

Question 3

Choose the interface to be implemented for transfering objects through network

* 1. Serializable
  2. Cloneable
  3. Transferrable

d. Runnable

Question 4

Which method from the java.lang.Object class is overridden when printing an Object in a static way or as part of System.out.println()

* + 1. clone()
    2. equals()
    3. toString()
    4. forString()

Question 5

public class Employee {

public void calcBonus() { }

}

class Onroll extends employee {

// Line 1

}

Which four code fragments, inserted independently at line 1, to override?

1. public void calcBonus() { }
2. public void calcBonus() { }
3. protected void calcBonus() { }
4. public void calcBonus() {int a }

Question 6

When a program does not want to handle exception, the\_\_\_\_\_\_\_\_\_\_ clause is used

1. *throw*
2. *throws*
3. *finally*
4. *None of the above*

Question 7

Which of the following is the default type of an interface variable

a. static final.

b. public final.

c. public static final.

d. public static

Question 8

What will be output if you try to compile and run the following code,   
import java.io.\*;   
  
public class Myclass{

public static void main(String[] args) {

int res = approveLoan(18, 300000);

System.out.println(res);

}

public static int approveLoan(int age, double income){

try {

res = processLoan(age, income);

return 1;

} catch (AgeException | IncomeException e) {

System.out.println( e.getMessage());

return -1;

}finally{

System.out.println("finally");

}

}

public static String processLoan(int age, double income) throws AgeException {

if(age < 20 || age > 40)

throw new AgeException("age must be between 20 and 40");

return "loan approved";

}

}

a) age must be between 20 and 40,finally, -1  
b) finally, age must be between 20 and 40 , -1

c) -1, age must be between 20 and 40,finally

d) 1

Question 9

How many method(s) can be defined in a functional interface

a.any no of abstract methods

b.only one abstract method

c.only one static methods

d.cannot have static and default methods

10.The state of the Object can be serialized by calling Which of the following Method

* 1. writeObject()
  2. readObjecT()
  3. WriteObjectStream()
  4. WriteObjectoutputStream();

11.You wish to access the data at random locations and operations are not synchronized. Uniqueness and order is not an issue and the data will remain fairly static Which data structure might be most suitable for this requirement?

1. HashSet
2. ArrayList
3. LinkedList
4. Vector

12.Which statement is true regarding HashSet

Statement A : The add method returns false if you attempt to add an element with a duplicate value

Statement B: duplicates are determined using hashcode() and equals()

a.statement A is true , B is false

b.statement A is true , B is true

c.statement A is false , B is true

d.statement A is false , B is false

13. Which of the following is a guaranteed method to Leave the current running Thread out of its running state

a.sleep()

b.join()

c.yield()

d.notify()

14. \_\_\_\_\_\_\_\_ method makes Thread eligible to run.

1. Thread.run()
2. Thread.schedule()
3. thread.start()
4. Thread.resume()

15.Which of the following methods is used by java.util.HashSet to determine duplicates

1. Equals and toString
2. Clone and finalize
3. hashCode and equals
4. hashCode and toString

Subjective Test

1.Write the jdbc code to retrieve all the employee who earns more than or equal to 50000 and bind it to List<Emp>

Table name : employee

|  |  |  |
| --- | --- | --- |
| Column name | Column type | Constraints |
| eid | number | Primary key |
| Ename | Varchar2(45) |  |
| sal | Number(10,2) |  |

2.Write the java code to display the duplicate from the given List<String>