Simulation 2 Exam Java Basic 2022-2023

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*Required

1. Nom & Prénom : *

2. Donner l'affichage qui résulte de l'exécution de la classe Test Suivante *

```
package ma.cigma.exam.basic.q1;
public class Test {
    public static void main(String[] args) {
         School s=new School(id: 1, name: "CIGMA")
     }
}
public class School {
    private long id;
    private String name="FST";
    public School(long id) {
        this.id = id;
        System.out.println("A "+id);
    public School(String name) {
        this(name.length());
        this.name += name;
        System.out.println("B "+this.name);
    }
    public School(long id, String name) {
        this(""+id++);
        this.id = id;
        this.name = name;
        System.out.println("C "+id);
```

}

}

3. Quelle est l'expression Lambda équivalente à l'interface fonctionnelle suivante *

```
package ma.cigma.exam.basic.q2;
@FunctionalInterface
public interface Reachable {
      String reach(String path, Integer miles);
}
Tick all that apply.
   Reachable r1= (a,b)-> a+b;
   Reachable r2= a,b-> a+b;
   Reachable r3= (a,b)-> return a+b;
   Reachable r4= (a,b)-> {return a+b;};
   Reachable r4= (a,b)-> {return a+b};
Choisir les instanciations possibles *
package ma.ciqma.exam.basic.q3;
public class Laptop {
      private long serial;
     private String description;
public class Hp extends Laptop{
     private double resolution;
}
Tick all that apply.
   Object o1 = new Hp();
   Hp o2=new Laptop();
   Laptop o3=new Hp();
  Laptop o4=new Object();
   Laptop o5 = new Laptop("serialID","23193");
```

5. Quels sont les objets room qui seront stocké dans la collection rooms *

```
package ma.cigma.exam.basic.q4;
Jimport java.util.HashSet;
import java.util.Set;
public class Test {
    public static void main(String[] args) {
        Set<Room> rooms = new HashSet<>():
        rooms.add(new Room(id: 1, name: "NIZAR"));
        rooms.add(new Room(id: 2, name: "SONAR"));
        rooms.add(new Room(id: 1, name: "QUBE"));
        rooms.add(new Room(id: 1, name: "CLOUD"));
        rooms.add(new Room(id: 2, name: "JUNIT"));
        System.out.println(rooms);
    }
public class Room {
    private long id;
    private String name;
    @Override
    public boolean equals(Object o) {
         Room room = (Room) o;
         return id = room.id;
    @Override
    public int hashCode() {
         return name.length();
    public Room(long id, String name) {
         this.id = id;
         this.name = name;
    @Override
```

```
public String toString() {
    return "Room{" +"id=" + id +": name="+name+"}"
}

}

Tick all that apply.

[Room{id=1: name=QUBE}, Room{id=1: name=NIZAR}, Room{id=2: name=SONAR}]

[Room{id=1: name=NIZAR}, Room{id=2: name=SONAR}]

[Room{id=1: name=QUBE}, Room{id=1: name=CLOUD}, Room{id=2: name=JUNIT}]

[Room{id=1: name=QUBE}]

[Room{id=1: name=QUBE}, Room{id=1: name=NIZAR}, Room{id=2: name=SONAR}, Room{id=1: name=CLOUD}, Room{id=2: name=SONAR}, Room{id=1: name=CLOUD}, Room{id=2: name=JUNIT}]
```

6. Donner l'affichage de la classe Test suivante *

```
package ma.cigma.exam.basic.g5.statickey;
public class Test {
    public static void main(String[] args) {
        String type1=Student.addType( newType: "B");
        String type2=Student.addType( newType: "C");
        System.out.println(type1);
        System.out.println(type2);
public class Student {
    private long id;
    private static String type="A";
    public static String addType(String newType){
        type+=newType;
        return type;
    }
}
```

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