

Fast Track to Java and OO Development – skill test

Full name:	Grade:
Q1 - What are <i>class variables</i> ? a) Class variables are static variables within a class but outside any method. b) Class variables are variables defined inside methods, constructors or blocks. c) Class variables are variables within a class but outside any method. d) None of the above.	
<pre>Q2 - A and E are classes - B and D are interfaces - C is an abstract class Which ones are true? (Choose 3) a) class F implements B, C{} b) class F implements B{} c) class F extends A, E{} d) class F extends E{} e) class F implements B, D{}</pre>	
Q3 - Choose the three legal identifiers. a) lstName b) _4_ c) @name d) \$ e) getSize	
<pre>Q4 - Given: public class Calculator { int num = 100; public void calc(int num) { this.num = num * 10; } public void printNum() { System.out.println(num); } Public static void main(String[] args) { Calculator obj = new Calculator (); obj.calc(2);</pre>	
<pre>obj.printNum(); } What is the result? a) 20 b) 100 c) 1000 d) 2</pre>	
Q5 - What is the size of byte variable? a) 8 bit b) 16 bit c) 32 bit d) 64 bit	



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Q6 - Given:
public class MyLoop {
      public static void main(String[] args) {
             String[] sa = {"tom ", "jerry "};
             for (int x = 0; x < 3; x++) {
                    for (String s : sa) {
                          System.out.print(x + " " + s);
                          if (x == 1) {
                                 break;
                          }
                    }
             }
What is the result?
a) 0 tom 0 jerry 1 tom 1 jerry
b) 0 tom 0 jerry 2 tom 2 jerry
c) 0 tom 0 jerry 1 tom 2 tom 2 jerry
d) 0 tom 0 jerry 1 tom 1 jerry 2 tom 2 jerry
Q7 - Given:
class Alpha {
      String getType() {
             return "alpha";
class Beta extends Alpha {
      String getType() {
             return "beta";
public class Gamma extends Beta {
      String getType() {
             return "gamma";
      public static void main(String[] args) {
             Gamma g1 = new Alpha();
             Gamma g2 = new Beta();
             System.out.println(g1.getType() + " " + g2.getType());
What is the result?
a) alpha beta
b) beta beta
c) gamma gamma
d) Compilation fails.
Q8 - Inheritance represents
a) HAS-A relationship.
b) IS-A relationship.
Q9 - What is correct syntax for main method of a java class?
a) public static int main(String[] args)
b) public int main(String[] args)
c) public static void main(String[] args)
d) None of the above.
```



Q10 - Which of the following stands true about [default] modifier of class members?

- a) By default, variables, methods and constructors can be accessed by subclass only.
- b) By default, variables, methods and constructors can be accessed by any class lying in any package.
- c) By default, variables, methods and constructors can be accessed by any class lying in the same package.
- d) None of the above.

Q11 - What is Encapsulation?

- a) Encapsulation is a technique to define different methods of same type.
- b) *Encapsulation* is the ability of an object to take on many forms.
- c) *Encapsulation* is the technique of making the fields in a class private and providing access to the fields via public methods.
- d) None of the above.

Q12 - Can constructors be inherited?

- a) True.
- b) False.

Q13 - What is the default value of float variable?

- a) 0.0d
- **b)** 0.0f
- **c)** 0
- d) not defined

Q14 - What is local variable?

- a) Variables defined inside methods, constructors or blocks are called *local variables*.
- b) Variables defined outside methods, constructors or blocks are called *local variables*.
- c) Static variables defined outside methods, constructors or blocks are called *local variables*.
- d) None of the above.

Q15 - What is the default value of Object variable?

- **h)** ∩
- c) null
- d) not defined

Q16 - Which of the following statements best represents polymorphism?

- a) ParentClass parentClassName = new ParentClassConstructor();
- b) ChildClass childClassName = new ParentClassConstructor();
- c) ParentClass parentClassName = new ChildClassConstructor();
- d) ChildClass childClassName = new ChildClassConstructor();
- e) None of the above.

Q17 - Which of the following is true about protected access modifier?

- a) Variables, methods and constructors which are declared protected can be accessed by any class.
- b) Variables, methods and constructors which are declared protected can be accessed by any class lying in same package.
- c) Variables, methods and constructors which are declared protected in the superclass can be accessed only by its child class.
- d) None of the above.

Q18 - Which of the following is true about *private* access modifier?

- a) Variables, methods and constructors which are declared private can be accessed only by the members of the same class.
- b) Variables, methods and constructors which are declared private can be accessed by any class lying in same package.
- c) Variables, methods and constructors which are declared private in the superclass can be accessed only by its child class.
- d) None of the above.



Q19 - What is true about a final class?

- a) A class declared final is a final class.
- b) Final classes are created so the methods implemented by that class cannot be overridden.
- c) It cannot be inherited.
- d) All of the above.

Q20 - What is an Interface?

- a) An interface is a collection of abstract methods.
- b) An interface is an abstract class.
- c) An interface is a concrete class.
- d) None of the above.

Q21 - What is inheritance?

- a) It is the process where one object acquires the properties of another.
- b) Inheritance is the ability of an object to take on many forms.
- c) Inheritance is a technique to define different methods of same type.

022 - What is NullPointerException?

- a) A NullPointerException is thrown when calling the instance method of a null object or modifying/accessing field of a null object.
- b) A NullPointerException is thrown when object is set as null.
- c) A NullPointerException is thrown when object property is set as null.

Q23 - Which of the following is FALSE about the String type?

- a) String is immutable.
- b) String can be created using new operator.
- c) String is a primary data type.
- d) None of the above.

Q24 - What is the JRE?

- a) JRE is a java based Graphical User Interface (GUI) application.
- b) JRE is an application development framework.
- c) JRE is an implementation of the Java Virtual Machine which executes Java programs.
- d) None of the above.

Q25 - What are instance variables?

- a) Instance variables are static variables within a class but outside any method.
- b) Instance variables are variables defined inside methods, constructors or blocks.
- c) *Instance variables* are variables within a class but outside any method.
- d) None of the above.