

OOP Java Exercise 2 Task 3 - Quizes

1) Given:

```
-----  
public class Table extends Furniture {  
    ...  
}
```

Which of the following statements are true?

- a) Table is a class.
- b) Furniture is not a class.
- c) Table is a superclass of Furniture.
- d) Table is a subclass of Furniture.
- e) Furniture is a subclass of Table.

2) Given:

```
-----  
public class MagicMemory {  
    public void save(int i){  
        ...  
    }  
    public void save(double d){  
        ...  
    }  
    public void save(string s){  
        ...  
    }  
}
```

Which of the following methods can be added to the class MagicMemory?

- a)

```
public void save(string t){  
    ...  
}
```
- b)

```
public double save(double d){  
    ...  
}
```
- c)

```
private void save(int i){  
    ...  
}
```
- d)

```
public void save(string s, int i){  
    ...  
}
```

3) Given:

```
-----  
public class Box{  
    private int height;  
    private int width;  
    private int length;  
    public Box(int i, int j, int k){  
        height = i;  
        width = j;  
        length = k;  
    }  
    public Box(){  
        height = 1;  
        width = 1;  
        length = 1;  
    }  
}
```

Which of the following options can be used to create a new box Object?

- a) Box boxA = new Box();
- b) Box boxB = new Box(2);
- c) Box boxC = new Box(4, 8);
- d) Box boxD = new Box(5, 2, 17);

4) Given:

```
-----  
public float calcPizzaVolume( ?? ){  
    float z = b / 2;  
    float volume = Math.PI * z * z * a;  
    return volume;  
}
```

Which of the following can be used as arguments instead of (??) for the method calcPizzaVolume ?

- a) (float a)
- b) (float b)
- c) (float z)
- d) (float a, float, b)
- e) (float a, float b, float z)

5) Given:

```
-----  
public class Book{  
    private int pages;  
    public Book(int i){  
        pages = i;  
    }  
    public int getPages(){  
        return pages;  
    }  
    public void setPages(int i){  
        pages = i;  
    }  
}  
public static void main(String[] args)  
{  
    Book JavaTut = new Book(1000);  
    (??)  
}
```

Which of the following can be used instead of (??) to return the number of pages of the Book JavaTut ?

- a) Book.getPages();
- b) Book.setPages(1000);
- c) JavaTut.getPages();
- d) JavaTut.setPages(1000)

6) What does a main method declaration in Java look like?

- a) static void main(String[] args)
- b) public void main()
- c) static public void main(String[] args)
- d) public static void main()
- e) public static void main(String[] args)

7) Which Java variable modifier is used to make the variable inheritable so encapsulation is still there?

- a) public
- b) private
- c) protected
- d) virtual
- e) friend

8) How does a declaration of an extending Java Class look like?

- a) class Test extends SuperTest
- b) class Test : public SuperTest
- c) public class Test :: SuperTest

9) How to create an Object in Java?

- a) ClassName object = new ClassName();
- b) ClassName object = ClassName();
- c) ClassName object;

10) How can an object be used in Java?

- a) object.method()
- b) object->method()
- c) object->variable
- d) object.variable

11) What keyword is used to inherit to a class from another class?

- a) extends
- b) implements
- c) public
- d) static

12) Which pattern would you use to avoid multiple constructors when initializing a class?

- a) Fassade
- b) Singleton
- c) Builder
- d) Adapter

13) How can you insure that a class is testable in an isolated environment?

- a)* pass dependencies of external components to the constructor
- b)* declare many variables
- c)* make all methods public
- d)* make use of many inheritances

14) Which of the following data structures can contain each element only once?

- a)* Stack
- b)* Set
- c)* Array
- d)* Heap

15) Which of the following is used to not expose all information?

- a)* Data hiding
- b)* Abstraction
- c)* Encapsulation
- d)* Inheritance