

## 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;  
    }  
}  
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