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## Unit 6 - Week 4 :

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### Assignment 4

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2019-02-27, 23:59 IST**

1) For which purpose packages are used in Java?

**1 point**

- a. Categorizes data
- b. Organizing java classes into namespaces
- c. For faster compilation
- d. None

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

2) Which of the following keywords is used to define a package in Java?

**1 point**

- a. class
- b. implements
- c. extends
- d. package

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

3) Which of the following is an incorrect statement about packages?

**1 point**

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- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

4) Which of these access specifiers can be used for an interface?

1 point

- a. public
- b. private
- c. protected
- d. All of the above

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

5)

1 point

Which of the following is an incorrect statement about packages?

- a. Interfaces specifies what class must do but not how it does.
- b. Interfaces are specified public if they are to be accessed by any code in the program
- c. All variables in interface are implicitly final and static.
- d. All variables are static and methods are public if interface is defined public.

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

6) Which one is correct declaration for implementing two interfaces?

1 point

- a. class C implements A, B { }
- b. class C implements A, implements B { }
- c. class C implements A extends B { }
- d. class C extend A, B { }

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

*a*

7) The fields in an interface are implicitly specified as

**1 point**

- a. public
- b. protected
- c. private
- d. static and final

- ☐ a
- ☐ b
- ☐ c
- ☐ d

**No, the answer is incorrect.****Score: 0****Accepted Answers:***d*

8) Let us consider the following piece of code in Java.

**1 point**

```
interface A {  
    inti = 111;  
}  
  
class B implements A {  
    void methodB() {  
        i = 222;  
        System.out.println(i);  
    }  
}
```

What will be the result of this code will be?

- a. There is no main () method so the program is not executable.
- b. The value of i will be printed as 111, as it is static and final by default.
- c. The value of i will be printed as 222, as it is initialized in class B.
- d. Compile time error

- ☐ a
- ☐ b
- ☐ c
- ☐ d

**No, the answer is incorrect.****Score: 0****Accepted Answers:***d*

9)

**1 point**

Which of the following is/are true?

- 1) Every class is a part of some package.
- 2) All classes in a file are part of the same package.
- 3) If no package is specified, the classes in the file go into a special unnamed package.
- 4) If no package is specified, a new package is created with folder name of class and the class is put in this package.

- a. Only 1, 2 and 3
- b. Only 3 and 4
- c. Only 1 and 3
- d. Only 3

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

10) Which of the following class inheritance is/ are not supported in Java?

1 point

- a. Single inheritance
- b. Hybrid inheritance
- c. Multilevel inheritance
- d. Multiple inheritance

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

d

11)

1 point

If a class inheriting an abstract class does not define all of its methods, then it will be known as

- a. Abstract class.
- b. A normal class.
- c. Final class
- d. An interface

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

12) Does a subclass inherit both member variables and methods?

1 point

- a. No—only member variables are inherited.
- b. No—only methods are inherited.
- c. Yes—both are inherited - but not those are declared as private.
- d. Yes—only the members/ methods with protected are inherited.

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

13) Can an object subclass another object?

1 point

- a. Yes—as long as single inheritance is followed.
- b. No—inheritance is only between classes.
- c. Only when one has been defined in terms of the other.
- d. Yes—when one object is used in the constructor of another.

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

14)

1 point

What is the output for the following Java program?

```
class Base {
    public void show() {
        System.out.println("Base show() called");
    }
}

class Derived extends Base {
    public void show() {
        System.out.println("Derived show() called");
    }
}

public class Main {
    public void show() {
        System.out.println("Main show() called");
    }
    public static void main(String[] args) {
        Base bb = new Derived();
        bb.show();
    }
}
```

- a. Base show() called
- b. Main show() called
- c. Derived show() called
- d. Compile time error

☐ a

☐ b

☐ c

☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

15)

1 point

Which of the following access specifiers can be used for a class so that its members can be accessed by a different class in the same package?

- a. public
- b. protected
- c. private
- d. default

☐ a

☐ b

☐ c

☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

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