



## SE1\_FINAL \_HANOIUNIVERSITY

Software Engineering (Trường Đại học Hà Nội)



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## Câu hỏi 2

In Hibernate, what is the difference between the get() and load() method?

Select one:

- a. get() returns a single object from database while load() return a collection of objects.
- b. load() should be called before get()
- c. When an object is not found, load() returns null while get() throws an exception.
- d. When an object is not found, get() returns null while load() throws an exception.

## Câu hỏi 3

Functional requirements capture the intended behavior of the system.

Select one:

- a. True
- b. False

## Câu hỏi 4

Which RegEx matches a either 'dog' or 'dogs'?

Select one:

- a. dogs?
- b. do(gls)
- c. dog(s)
- d. dog#s

## Câu hỏi 5

What does the properties rule state?

Select one:

- a. Sub-type must not violate super-type's rep invariant(maybe)
- b. Super-type must not violate sub-type's rep invariant
- c. Sub-type must have all the attributes of the super-type
- d. Sub-type must have all the methods of the super-type

## Câu hỏi 6

The \_\_\_\_\_ () method is used to get all keys of a Map in Java.

**a.keySet()**

### Câu hỏi 7

Which of the following is true about the subtypes of a super type that is a Java interface?

Select one:

**a. sub-types can be both class and interface**

b. sub-types can only be abstract classes

c. sub-types can only be class

d. sub-types can only be interface

A?

- Subtype - A class type or interface type is a subtype relative to another type, if its corresponding class or interface is extending or implementing directly or indirectly the class or interface of the other type.

### Câu hỏi 8

Which of the following is not a testing technique?

Select one:

**a. Collaboration testing**

b. Integration testing

c. Unit testing

d. System testing

### Câu hỏi 9

Can an abstract class contain method body?

Select one:

a. Yes

**b. No**

### Câu hỏi 10

Which RegEx matches a either 'FIT' or 'Hanu'?

Select one:

a. (FIT#Hanu)

b. {FIT:Hanu}

**c. (FIT|Hanu)**

d. [FIT?Hanu]

### Câu hỏi 11

The later in the development cycle that a software error is detected, the \_\_\_\_\_expensive it will be to repair.

Select one:

- a. most
- b. less
- c. least
- d. more

### Câu hỏi 12

Select one:

When change in requirements affects few modules of a software system, its architecture is said to be:

- a. Flexible
- b. Safe
- c. Adaptable
- d. Composable

Adaptable

change in requirements affects few modules

### Câu hỏi 13

What will be the output of the following Java code?

```
public class Test {  
    public static void main(String[] args) {  
        Set s = new HashSet();  
        s.add(new Long(10));  
        s.add(new Integer (10));  
        for (Object object : s) {  
            System.out.println("test - " + object);  
        }  
    }  
}
```

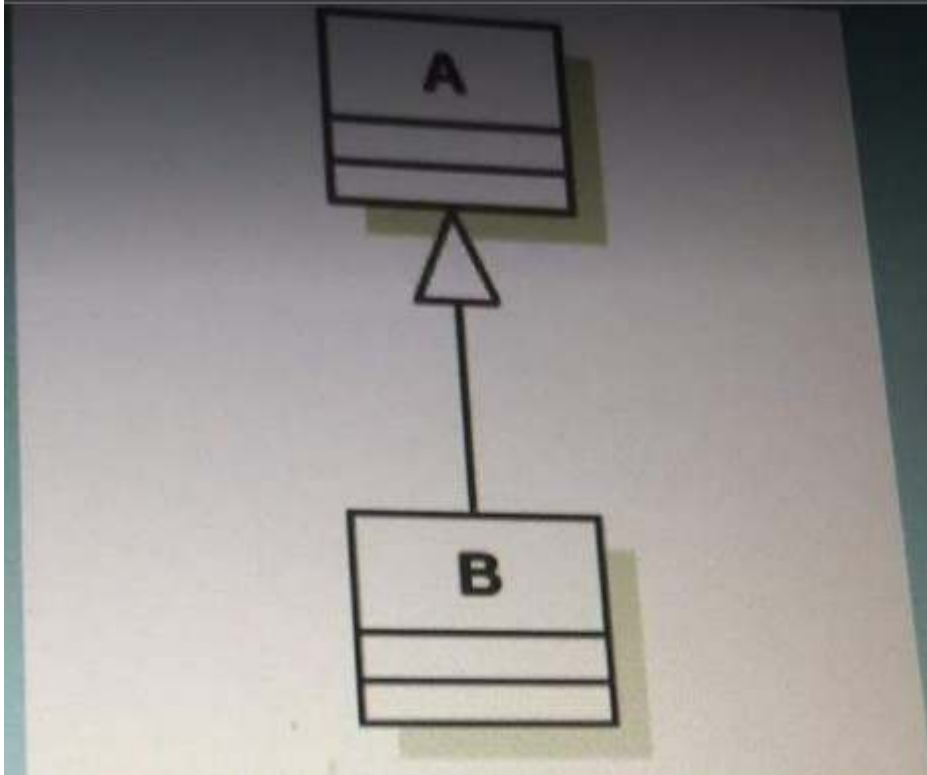
Select one:

- a. Compilation Failure
- b. test - 10
- c. test - 10

test - 10

d. Runtime Exception

### Câu hỏi 14



What can be said about the above class diagram?

Select one:

- a. Class B is a super-type of class A
- b. Class B implements interface A
- c. Class A is a super-type of class B**
- d. Class A is a dependency of class B

### Câu hỏi 15

```
class A {
    public int i;
    protected int j;
}
class B extends A {
    int j;
    void display() {
        super.j = 3;
        System.out.println(i + " " + j);
    }
}
```

```

    }
}
class Output {
    public static void main(String args[]) {
        B obj = new B();
        obj.i = 1;
        obj.j = 2;
        obj.display();
    }
}

```

What will be the output of the following Java code?

Select one:

- a. 1 2
- b. 3 1
- c. 1 3
- d. 2 1

### Câu hỏi 16

Which RegEx matches a phone number which contains 9 or 10 digits?

Select one:

- a. `\d{10}?`
- b. `[0 - 9] {9} \d ?`
- c. `\d{9, 10} ?`
- d. `[0 - 9] + {9, 10}`

### Câu hỏi 17

What is the worst case complexity of accessing an element in ArrayList?

Select one:

- a.  $O(1)$
- b.  $O(n \log n)$
- c.  $O(n)$
- d.  $O(2)$

### Câu hỏi 18

Which method is used to insert an object into database in Hibernate?

Select one:

- a. `insert()`

b.query()

c. save()

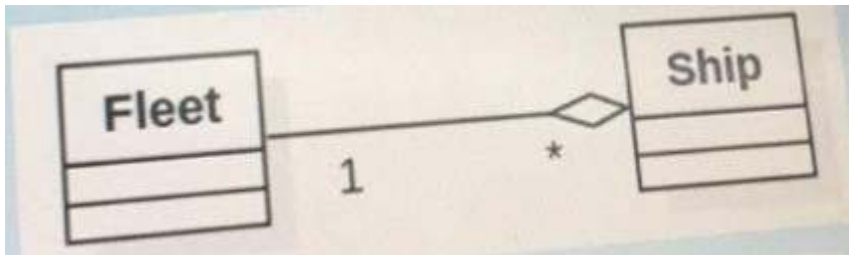
d. persistent()

### Câu hỏi 19

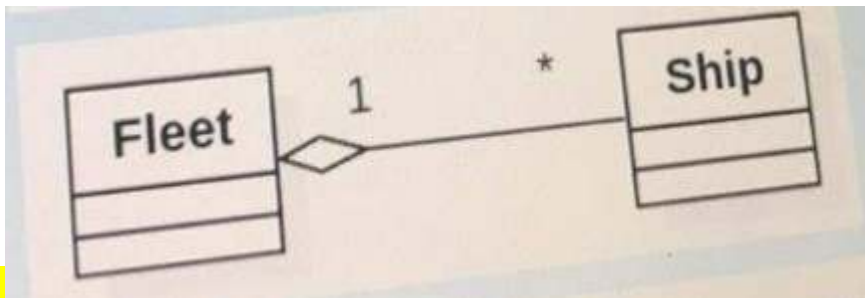
Which of the following is the class diagram for the following requirement?

The fleet contains multiple ships, one ship belongs to exactly one fleet. A ship can exist without a fleet.

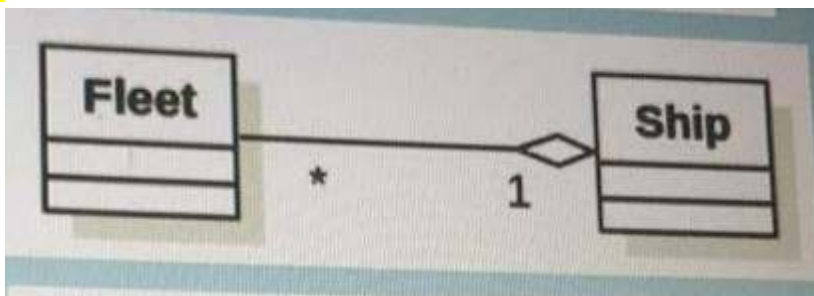
a.



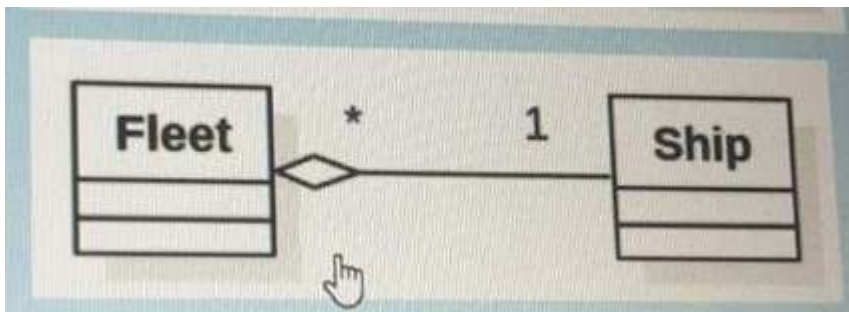
b.



c.

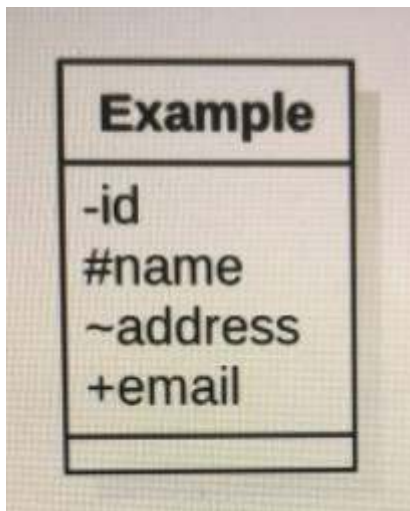


d.



### Câu hỏi 20

What is the visibility of the id attribute?



Select one:

- a. Public
- b. Private**
- c. Protected
- d. Package

### Câu hỏi 21

Which statement is true about the Map data structure in Java?

Select one:

- a. The get() method returns the value at a certain index.
- b. The type of key is restricted to integers.
- c. The Map's keys can be of any type.**
- d. Each key appears at most once in the Map.

A **Java map** is an object that maps keys to values. These keys and values can be of any data type.

### Câu hỏi 22

In which phase of the SDLC is a software system systematically repaired and improved?

Select one:

- a. Maintenance**
- b. Quality Assurance
- c. Deployment
- d. Implementation

### Câu hỏi 23



An abstract class can have constructors and static methods?

Select one:

- a. It can have constructors but not static methods.
- b. It can have static methods but not constructors.
- c. It can have neither
- d. It can have both

#### **Câu hỏi 24**

Before actual software development begins, this model requires to build the toy implementation of it.

Select one:

- a. Agile model
- b. Prototyping model
- c. Incremental model
- d. Waterfall model

#### **Câu hỏi 25**

Which of the below is not a dependency management tool?

Select one:

- a. Jenkins
- b. Gradle
- c. Ant
- d. Maven

#### **Câu hỏi 26**

Iteration abstraction is an abstraction that iterates over a generic array of objects.

Select one:

- a. False
- b. True

#### **Câu hỏi 27**

The prototyping model of software development is

Select one:

- a. A reasonable approach when requirements are well defined
- b. A risky model that rarely produces a meaningful product
- c. The best approach to use for projects with large development teams

d. A useful approach when a customer cannot define requirements clearly

### Câu hỏi 28

Which part of a procedure's specification is not optional?

Select one:

- a. The parameters
  - b. The side effects
  - c. The pre-conditions
  - d. The post-conditions
- D?

Pre-conditions	No pre-conditions
Post-conditions	Store documents in Engine.

### Câu hỏi 29

Type hierarchy is a product of type abstraction.

Select one:

- a. True
- b. False

### Câu hỏi 30

Which of the following is not a technique for requirements elicitation?

Select one:

- a. Consolidation
- b. Interview
- c. Document Analysis
- d. Prototyping

### Câu hỏi 31

Test cases are designed from examining the input/output values only and no knowledge of design or code is required. Which testing method is it?

Select one:

- a. Grey-box testing
- b. Black box testing
- c. White box testing

d. Integration testing

### Câu hỏi 32

When a software system can be broken down into pieces, it is considered:

Select one:

- a. Breakable
- b. Divisible
- c. Decomposable
- d. Composable

### Câu hỏi 33

What are the three techniques which are applied in the catch block?

Select one:

- a. Reflecting, suppressing, warning
- b. Logging, masking, reflecting
- c. Masking, shadowing, hiding
- d. Logging, bypassing, reporting

```
    } catch (NonPositiveException e) {  
        // log exception  
        System.err.println("Error: " + e.getMessage());  
        // mask using value -1  
        return -1;  
    }
```

### Câu hỏi 34

The \_\_\_\_\_() method is used to get all values of a Map in Java.  
values

### Câu hỏi 35

Which of the following is a difference between checked and unchecked exceptions?

Select one:

- a. Checked exceptions need not be listed in a throws clause
- b. Unchecked exceptions must be listed in a throws clause
- c. Neither kind of exception follows the rules of exception propagation
- d. An unchecked exception requires no throws clause

e. A checked exception always must be caught by a try block; an unchecked exception does not

### Câu hỏi 36

Which of the following best describes how to use an iteration abstraction in a program? Select one:

- a. use a loop with invocations to the hasNext() and nextElement() methods
- b. use a loop with invocations to the hasNext() and iterator() methods
- c. use a while loop with invocations to the isEnded() and nextElement() methods
- d. use a for loop with invocations to the isNext() and getNext() methods
- e. use a loop with invocations to the hasNext() and next() methods(maybe)

### Câu hỏi 37

Which interface should the Generator of an iteration abstraction implement?

Select one:

- a. java.lang.Iterable
- b. java.util.Iterator
- c. java.lang.Iterator
- d. java.util.Iterable

### Câu hỏi 38

In Regular Expression, which of the following matches a non-word character?

Select one:

- a. \w
- b. \S
- c. \W
- d. \s

