Final-Quiz A↕

Due No due date	**Points** 200	**Questions** 20	**Available** until Apr 29 at 7:04pm

Time Limit 21 Minutes

Instructions

Each question will be shown ONLY once.

You will not be able to revisit the same question again, so make sure to MARK the answer for each question and only then move to the next question. Each question is weighed differently. Please answer carefully high-weightage questions.

The total number of questions in the quiz is 20. Manage your time accordingly.

DO NOT CLICK THE SUBMIT QUIZ BUTTON BY MISTAKE. You will not be given a second attempt.

Wish you the best!

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	21 minutes	110 out of 200

ⓘ Correct answers are hidden.

Score for this quiz: **110** out of 200

Submitted Apr 29 at 6:39pm

This attempt took 21 minutes.

Incorrect

Question 1

0 / 10 pts

Which one of the following creates a thread pool that creates new threads as needed, but will reuse previously constructed threads when they are available

○ Executors.newCachedThreadPool   **correct answer**

○ Executors.newScheduledThreadPool

◉ Executors.newFixedThreadPool

○ Executors.newSingleThreadExecutor

Question 2

5 / 5 pts

Which of the following is incorrect for polymorphism

○ Polymorphism concept is the feature of object-oriented programming (OOP)

◉ It always increases the overhead of function definition

○ Ease in the readability of the program

○ Polymorphism helps in redefining the same functionality

Question 3   10 / 10 pts

In OSI reference model, which layer manages overall communication between host and ultimate destination?

○ Network

○ Physical

○ Link

◉ Transport

Incorrect

Question 4   0 / 10 pts

Which of the following is/are true about interface class:

□ all of the above

☑ contains only unimplemented met

 interface in Java always has at least one unimplemented method, which is an abstract method. However, starting from Java 8, interfaces can also have default methods or static methods that provide an implementation. So, while traditional interfaces only have unimplemented methods, modern interfaces may include methods with default implementations.

☐ contains only final variables

☐ none of the above   correct answer

☑ contains only static variables

Question 5   10 / 10 pts

Choose one of the following lines that has an OBVIOUS coding ERROR?

○ ArrayList<String> names = new ArrayList<String>();

◉ List<> names = new ArrayList<String>();

○ List<String> names = new ArrayList<>();

○ List<String> names = new ArrayList<String>();

Incorrect   ## Question 6   0 / 10 pts

Select a statement that is true about Lambda expression in Java 8.

○ Lambda expressions enable functions to be passed as an argument.   **correct answer**

◉ It is neither a function nor an interface

○ Lambda is denoted with => sign.

○ None of these

Question 7   **10 / 10 pts**

Select the correct way from below options to achieve a parameter less Lambda expression.

○ Need to pass curly braces to denotes that there are no parameter on left side of the arrow.

◉ Pass empty set of parentheses on the left side of the arrow.

○ In this particular case arrow is not required at all.

○ Not passing anything on the left side of the arrow.

Incorrect

Question 8   **0 / 10 pts**

Why does the following line of code throws error:

List<int> list = new ArrayList<int>();

(answer only in lowercase)

| integer | int

Question 9   10 / 10 pts

Which two features of object-oriented programming are the same?

◉ Encapsulation and Abstraction

○ Encapsulation and Polymorphism features are the same

○ Inheritance and Encapsulation features are the same

○ Abstraction and Polymorphism features are the same

Question 10   20 / 20 pts

We can not create instance of _____

- ☑ Abstract Class

- ☐ Anonymous Class

- ☐ Nested Class

- ☐ Parent Class

Question 11   20 / 20 pts

Given the following code fragment:
List<String> names = new ArrayList<>();
Choose, from the following, the most appropriate answer or answers.
SELECT WHICH S.O.L.I.D. design principles this java code statement CLEARLY AND OBVIOUSLY
demonstrates.

- ☑ Liskov substitution principle

- ☑ Open Closed principle

- ☐ Interface Segregation Principle

☑ Dependency Inversion principle

☐ Sole Responsibility Principle

Question 12   15 / 15 pts

When instantiating a HashMap class for an associative container, BEST PRACTICE is to define the variable as type _____. (Type the answer below)

map

Incorrect ### Question 13   0 / 4 pts

Which of the following are true for Enum:

☐ Prefer over integer or string codes to increase compile-time checking   **correct answer**

☐ Declared as class data member

☑ all of the above

☐ are mutable and tehre value can be changed later

_____

☐ Can have constructors, methods and variables   correct answer

---

Incorrect

Question 14   **0 / 5 pts**

Who developed object-oriented programming?

    alan key

Incorrect

Question 15   **0 / 10 pts**

All Interface methods are implicitly _____ and _____

    public abstract   public and abstract

Incorrect

Question 16   **0 / 10 pts**

If my multithreaded code required a sequential container, I would use the _____ class. (Type the answer)

> Runnable

Vector

Incorrect

Question 17   0 / 4 pts

What will be the correct output for below code snippet?

class static_out

{

static int x;

static int y;

void add(int a, int b)   2,3   5,2

{

x = a + b;   5   7

y = x + b;   8   9

}

}

public class static_use

```
{

public static void main(String args[])

{

static_out obj1 = new static_out();

static_out obj2 = new static_out();

int a = 2;

obj1.add(a, a + 1);

obj2.add(5, a);

System.out.println(obj1.x + " " + obj2.y);

}

}
```

○ 7 7.4

○ 7 9   correct answer

○ 9 7

⦿ 6 6.4

Incorrect **Question 18**   0 / 2 pts

The return type cannot be the same in case of method overriding

○ False   correct answer

◉ True

Question 19   10 / 10 pts

Write done output of the following program.

```
class Driver {
 public static void main(String args[]) {
   final int x;
   x = 89;
   x = 64;
   System.out.println(x);
 }
}
```

○ 0

○ 64

◉ Compile Error

○ 89

Unanswered

Question 20   0 / 15 pts

What will be the output of the following program. Type your answer below.

class Driver {⬚SEP⬚

   public static void main (String[] args)   {⬚SEP⬚

     int arr1[] = {4, 6, 8};
     int arr2[] = {4, 6, 8};
     if (arr1 == arr2)
       System.out.println("You");
     else
      System.out.println("Me");   Me
   }

}

Quiz Score: **110** out of 200