



"For Nation's Greater Heights"

# SURIGAO STATE COLLEGE OF TECHNOLOGY

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## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

SECOND Semester, AY 2021-2022

### TEST QUESTIONNAIRE

#### MIDTERM Examination in AC3/AC4 – OBJECT ORIENTED PROGRAMMING

Direction: This exam covers Modules in Midterm (40 points). Please answer in a sheet of paper and take picture then turned in. This is due at 7:30-9:00am. Those late submission can still be accepted but with deductions. Strictly NO DUPLICATION OF ANSWERS.

#### I. ANALYSIS (Module 1): Analyze and answer the question

1-5 Completely distinguish procedural and object oriented in terms of programming methods.

In procedural programming, the program is divided into small parts called functions. In object-oriented programming, the program is divided into small parts called objects. Procedural programming follows a top-down approach. Object-oriented programming follows a bottom-up approach.

6-10 Comprehensively evaluate encapsulation, abstraction, inheritance and polymorphism based on the principles of object-oriented programming;

There are three more important concept, inheritance, which makes the OOP code more modular, easier to reuse and build a relationship between classes. Encapsulation can hide some of the private details of a class from other objects, while polymorphism can allow us to use a common operation in different ways.

#### II. EVALUATION (Module 2) : Evaluate and answer the question

11-20 Broadly summarize the concepts of unified modeling language (UML), the standard approach for modeling a system in the object-oriented world.

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Unified modeling language (UML) provides a standardized set of tools to document the analysis and design of a software system. UML is fundamentally based on an object-oriented technique known as use case modeling. A use case model describes what a system does without describing how the system does it.

III. **ANALYSIS (Module 3)**: Analyze the following statements. Write the letter of the correct answer in your paper. Write

**Answer: b**

- a. If a supports the statement.
- b. If b supports the statement.
- c. If a and b support the statement.
- d. Neither a nor b supports the statement.

Questions:

21. The use of the correct String declaration to declare the String of txt "Good Morning"

**Answer: a**

- a. String = "Good Morning";
- b. string = "Good Morning";

22. The use of the correct operator to **concatenate** two strings: String one = "One" and String two = "Two".

**Answer: b**

- a. System.out.println(One + two)
- b. System.out.println(One + Two)

23. Declaring Variable Syntax is :

**Answer: a**

- a. type variable = value;
- b. variable = value;

24. Creating a variable called **name** of type string and assign it the value **"John"**:

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**Answer: a**

a. String name = John;

b. String name = "John";

25. Creating a variable called **Num** of type int and assign it the value 50.

**Answer: a**

a. int Num = 50;

b. int Num = "50";

26. Creating a variable called num of type double and assign it the value of 100.00

**Answer: b**

A. int num = 100;

b. double num = 100.00;

27. The *Rules for Declaring Variables in Java*

**Answer: b**

a. Variable name must bound with data type. It means while declaring a variable we must specify its data type.

b. Reserve word or keywords cannot be taken as a variable name.

28. The types of variables in Java

**Answer: a**

a. instance

b. local

29. Consider the item below

**Answer: b**

if (condition)



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```
{  
    ... (if block)  
}
```

This means the

- A. correct syntax of the if statement
- B. correct but lacking syntax of the if statement

30. Consider the item below

**Answer: a**

System.out.println("Old Price of Iron: "+PRICE); which means

- A. The screen prints out Old Price of Iron: with the value of the PRICE
- B. The screen prints only the value of the PRICE

### **EVALUATION (Module IV). Evaluate the item below**

31-40. Comprehensively evaluate the array with its declaration, initialization and accessing the elements. You can give examples for your evaluation.

**Answer:**

An array can be initialized to a particular size. In this case, the default value of each element is 0.

```
class HelloWorld {  
    public static void main( String args[] ) {  
        //Array Declaration  
  
        int[] array;  
  
        //Array Initialization  
  
        array = new int[]{1,2,3,26,15};  
    }  
}
```



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```
{ System.out.println(array[2]); } }
```

Output: 3

Course Hero