



# SURIGAO STATE COLLEGE OF TECHNOLOGY

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| Document Code No. | FM-SSCT-ACAD-004 |
| Revision No.      | 00               |
| Effective Date    | 01 January 2019  |
| Page No.          | 1 of 4           |

## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

Second Semester, AY 2021-2022

### TEST QUESTIONNAIRE

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

**Direction:** Write your answer in one long bond paper, if possible front page only. Take picture and Turn in.

**APPLICATION(Module 5) :** Apply what you have learned.

1. Write at least one program code with output specified in Module 5, Explain why and how the output is generated.

```
class Animal {  
  
    // field and method of the parent class  
    String name;  
    public void eat() {  
        System.out.println("I can eat");  
    }  
}
```

```
// inherit from Animal  
class Dog extends Animal {  
Prepared by: UNIFE O. CAGAS, DTE  
Faculty
```

Checked by: **MICHAEL P. YUJOCO, PhD**  
Program Chair, BEXET



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|                   |                  |
|-------------------|------------------|
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| Revision No.      | 00               |
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| Page No.          | 2 of 4           |

```
// new method in subclass
public void display() {
    System.out.println("My name is " + name);
}
}
```

```
class Main {
    public static void main(String[] args) {

        // create an object of the subclass
        Dog labrador = new Dog();

        // access field of superclass
        labrador.name = "Rohu";
        labrador.display();

        // call method of superclass
        // using object of subclass
        labrador.eat();

    }
}
```

Output

My name is Rohu  
I can eat

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| Effective Date    | 01 January 2019  |
| Page No.          | 3 of 4           |

Since Dog inherits the field and method from Animal, we are able to access the field and method using the object of the Dog.

2. (Module 6) Write at least one program code with output specified in Module 6, Explain why and how the output is generated.

```
class Main {
    public static void main(String[] args) {

        try {

            // code that generate exception
            int divideByZero = 5 / 0;
            System.out.println("Rest of code in try block");
        }

        catch (ArithmeticException e) {
            System.out.println("ArithmeticException => " + e.getMessage());
        }
    }
}
```

Output

ArithmeticException => / by zero

we are trying to divide a number by 0. Here, this code generates an exception. To handle the exception, we have put the code, 5 / 0 inside the try block. Now when an exception occurs, the rest of the code inside the try block is skipped. The catch block catches the exception and statements inside the catch block is executed. If none of the statements in the try block generates an exception, the catch block is skipped.

### I. ANALYSIS (Module 7): Analyze and answer the question, 16 points

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| Page No.          | 4 of 4           |

### Completely Explain AWT Packages in the development of graphic programs

The Abstract Window Toolkit (AWT) is Java's original platform-dependent windowing, graphics, and user-interface widget toolkit, preceding Swing. The AWT is part of the Java Foundation Classes (JFC) — the standard API for providing a graphical user interface (GUI) for a Java program. AWT is also the GUI toolkit for a number of Java ME profiles. For example, Connected Device Configuration profiles require Java runtimes on mobile telephones to support the Abstract Window Toolkit.

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