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COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

Second Semester, AY 2021-2022

TEST QUESTIONNAIRE

FINAL Examination in AC3/AC4 - OBJECT ORIENTED PROGRAMMIN

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.

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

// inherit from Animal
class Dog extends Animal {
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```

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Program Chair, BEXET



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```
// 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 Roll
I can eat
```

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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 (>> "LeegetMessage());
   }
  }
}
Output
```

ArithmeticException => / zero

we are aying to divide a number by 0. Here, this code generates an exception. To handle the exception, we have put the opde, 5 / 0 inside the try block. Now when an exception occurs, the rest of the code inside the code inside the code inside the code inside the catch 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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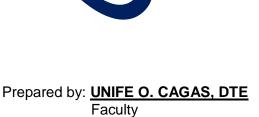


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Completely Explain AWT Packages in the development of graphic programs

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 Gul 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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