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**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

 **UNIVERSITY EXAMINATIONS 2016/2017**

**YEAR II SEMESTER I EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY**

**DIT 0301: OBJECTED ORIENTED PROGRAMMING**

**DATE: APRIL 2017 TIME: 1 ½ HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

1. What is JAVA explain in detail. [2 marks]
2. What is a variable? Explain TWO ways of variable declaration; illustrate using an example. [4 marks]
3. Explain the difference between a class and an object in JAVA. [4 marks]
4. Write a JAVA Code to display ‘Hello World”. [2 marks]
5. Explain the difference between JAVA and Java Script in JAVA. [4 marks]
6. List the FIVE primary goals in the creation of the Java programming language. [5 marks]
7. List any FIVE characteristics of Java programming language. [5 marks]
8. Differentiate Public and Private variable access modifiers. [4 marks]

**SECTION B:**

**QUESTION TWO (20 MARKS)**

1. What are comments? Explain how to include comments in any Java code. [4 marks]
2. With the help of code examples explain what are exceptions in Java? [4 marks]
3. As a Java Programmer explain any FOUR different types of events [4 marks]
4. Write a Java Program that will show the use of the Loop. [4 marks]
5. Explain any FOUR different things that make Java importance? [4 marks]

**QUESTION THREE (20 MARKS)**

1. Explain any FOUR different data types used in Java Programming giving examples of each. [4 marks]
2. Explain the JAVA program below in detail. [4 marks]

 Class HelloWorldApp

 {

 Public Static void main (String [ ] orgs)

 {

 System.out.printing (“Hello World!”;

 }

 }

1. Explain the TWO file extensions in JAVA programming with illustrative examples. [4 marks]
2. What is an access modifier? Explain the different types of access modifiers used in Java Programming. [4 marks]
3. Briefly explain inheritance in Java Programming. [4 marks]

**QUESTION FOUR (20 MARKS)**

1. What is an operator? Explain the use of a fernery operator in Java Programming. [4 marks]
2. Using a code examples in the WHILE loop as used in Java Programming. [4 marks]
3. What is a frame in java? Explain with a code example how to create a frame in any java program. [4 marks]
4. What is an array? Explain how an array is declared and how to access the elements of an array in java. [4 marks]
5. With the help of a java code explain the if statement. [4 marks]

**QUESTION FIVE (20 MARKS)**

1. Explain with the help of a code example, the ELSE – IF statement as used in java programming. [5 marks]
2. Explain with the help of a code example, the SWITCH statement as used in java programming. [5 marks]
3. As a junior java programmer explain the difference between packages and interfaces as used in java. [5 marks]
4. As a programmer explain the fundamental elements of any java program. [5 marks]