

 W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2017/2018**

**END OF SEMESTER EXAMINATION FOR THE DIPLOMA**

**HCT 0209: OBJECT ORIENTED PROGRAMMING**

**DATE: AUGUST 2018 TIME: 1.5 HOURS**

**INSTRUCTIONS: ANSWER ANY THREE QUESTIONS**

**QUESTION ONE (20 MARKS)**

1. Explain the following terms used in java;
2. Extend [3 marks]
3. Encapsulation [3 marks]
4. Inheritance [3 marks]
5. Polymorphism [3 marks]
6. Data Abstract. [3 marks]
7. A local company is planning a sales promotion. The sale price of each item is based on its original price. If the original price is less than Tshs.2500 then there is no discount. If the original price is Tshs.2500 or over but less than 5000 than the price is reduced by 10% for sale. If the original price is Tshs.5000 and over then the price is reduced by 20%. Given the original price then write a sample java application (without UI) that will calculate the sales price while the original price is being entered by user. [15 marks]

**QUESTION TWO**

What output will display after running the below code?

 Public Class Test{

 Public Static void main (string [ ] args) {

 Int j = ;

 Int k = 5;

 If (j>k)

 {

 System.out.print (“j is greater than k”)

 } else {

 System.out.print In (“k is greater than j”);

 }

**QUESTION THREE**

What will be printed as the output of the following program?

Public Class Testiner

{

Public Static void main (string args [ ])

{

 Int i = 0;

 i = i ++ +i;

 System.out.printIn(“I = “+i");

 }

 }

**QUESTION FOUR**

What is the output of the following program?;

 Public Class test meth

 {

 Static int i= 1;

 Public static void main (string args [ ])

 {

 System.out.printIn (i+ “, “ );

 m(i);

 system.out.printIn(i);

 }

 Public void m(int i)

 {

 i + = 2;

 }

 }

**QUESTION FIVE**

Use any Loop to display the following word (By using Java Programming)

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