

**W1-2-60-1-6**

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

# **UNIVERSITY EXAMINATIONS 2016/2017**

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

**DIT 0303: PROGRAMMING DESKTOP APPLICATIONS**

**DATE: APRIL 2017 TIME: 1.30 HOURS**

**INSTRUCTIONS:**

**ANSWER QUESTION ONE [COMPULSORY] AND ANY OTHER TWO QUESTIONS**

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**QUESTION ONE [30 MARKS COMPULSORY]**

1. What is object oriented programming [3 marks]
2. Describe features of object oriented programming [6 marks]
3. Describe each of the following [4 marks]
4. MDI (Multiple Documents Interface)
5. SDI ( Single decimal interface )
6. Tool box
7. Properties window
8. Key elements of .NET are 3, discuss them [6 marks]
9. Write a set code that will accept admission number search the database for admission number and display student name, course code and department [6 marks]
10. Show variable declaration in VB .NET [3 marks]
11. Show how variables are initialized in VB .NET [3 marks]

**QUESTION TWO [15 MARKS]**

1. Write a simple code to prove the words “Hello world” [5 marks]
2. 5 types of applications we can develop in .NET [5 marks]
3. What is .NET? [2 marks]
4. Name the key elements of .NET [3 marks]

**QUESTION THREE [15 MARKS]**

1. Write a code when compiled and executed it produces the following results

a-10, b=30, c=30 [6 marks]

1. What is a constant ? [2 marks]
2. What is an enumeration? [2 marks]
3. Write a code to demonstrate declaration and use of a constant value that accepts a radius of 7 and outputs the area as 153:933

Constant p: 3.14149 [5 marks]

**QUESTION FOUR [15 MARKS]**

1. What has changed from Vb 6 to VB.NET? [6 marks]
2. Describe the following [4 marks]

(i) menu bar

(ii) form window

(iii) program

(iv) a project

1. Write a simple code 70 print the words “Hello world” [5 marks]

**QUESTION FIVE [15 MARKS]**

1. Discuss the declaration statements and description of each in VB.NET [10 marks]
2. Describe 2 categories of statements [10 marks]