



A Constituent College of Kenyatta University

UNIVERSITY EXAMINATIONS 2011/2012 ACADEMIC YEAR

INSTITUTIONAL BASED

2ND YEAR EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

COURSE CODE/TITLE: SCT D 204: EVENT DRIVEN PROGRAMMING

END OF SESSION I

DURATION: 2HRS

DAY/TIME: WEDNESDAY 4.00– 7.00PM DATE 19/04/2012(TF3)

INSTRUCTIONS:

- 1. Section A is compulsory**
 - 2. Choose any other 2 questions from Section B**
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QUESTION ONE (40 Marks)

- a) Distinguish each of the following
 - i. Procedural and No-procedural programming
 - ii. Selection and iteration
 - iii. Combo Box and Text Box
 - iv. Input Box and message Box **(8 marks)**

- b) What is the difference between a system flowchart and program flowchart **(4 marks)**

- c) Describe, with an example, each of the following types of error which can occur in programs. Where appropriate, your example should include both correct and incorrect versions
- i) Syntax error
 - ii) Logical error
 - iii) Executive error **(9 marks)**
- d) What is the difference between programming language and programming style? **(4 marks)**
- e) After a program has been planned, it is often given a dry run. What is dry run? **(3 marks)**
- f) One of the stages in the systems development includes 'system maintenance'. Identify and briefly describe three types of systems maintenance commonly undertaken **(9 marks)**
- g) A convention has been established for naming visual basic objects. Explain how the convention is used **(3 marks)**

SECTION B (30 Marks)

Answer Any Two Questions

QUESTION TWO (15 Marks)

- a) Visual basic provides a great deal of flexibility, allowing users to configure the working environment to best suit individual style. Describe the two types of environment interfaces **(4 marks)**
- b) There are three broad categories of controls in visual basic. List and describe the three categories of controls **(6 marks)**
- c) To be able to access a database, a form must have a data control which acts as a link between a database and data bound control in visual basic. Explain how you would connect database, data source and fields in a form **(5 marks)**

QUESTION THREE (15 Marks)

- a) Differentiate between
- i) Local variable and global variable **(2 marks)**
 - ii) Variables and constants **(2 marks)**
- b) In visual basic when codes are ended between **Private sub ,End sub** what does it mean **(4 marks)**
- c) Predict the output of the following code fragment

```
Private Sub cmdpredict_Click ()  
    Dim counter as integer  
    Const Finish =11, Start = 0  
    For counter = start to finish step 2  
        Print counter  
    Next counter  
End Sub
```

(7 marks)

QUESTION FOUR (15 Marks)

- a) There are several programming languages in the market. What is a programming language? Discuss four factors to consider in selecting a programming language to use **(7 marks)**
- b) Identify and suggest corrections to the errors in the program listed below.

```
Private sub command1  
    Dim x as integer, y as integer, me as string  
    Pay as integer, hours as integer  
    If hours >= 100  
        Pay = hours*1000  
    Else  
        Pay = hours *1200  
    Pay (x) = inputbox("enter hours worked")  
    MsgBox(Input hours worked)  
End sub
```

(8 marks)