KABARAK   **UNIVERSITY**

UNIVERSITY EXAMINATIONS
2010/2011 ACADEMIC YEAR
FOR THE DEGREE OF BACHELOR COMMERCE

COURSE CODE: BMGT 121

COURSE TITLE: COMPUTER PROGRAMMING FOR

BUSINESS

STREAM: **Y1S2**

DAY: **THURSDAY**

TIME: **9.00 – 11.00 A.M**

DATE: **16/12/2010**

INSTRUCTIONS:

- Answer Question **ONE** and any other **TWO** Questions
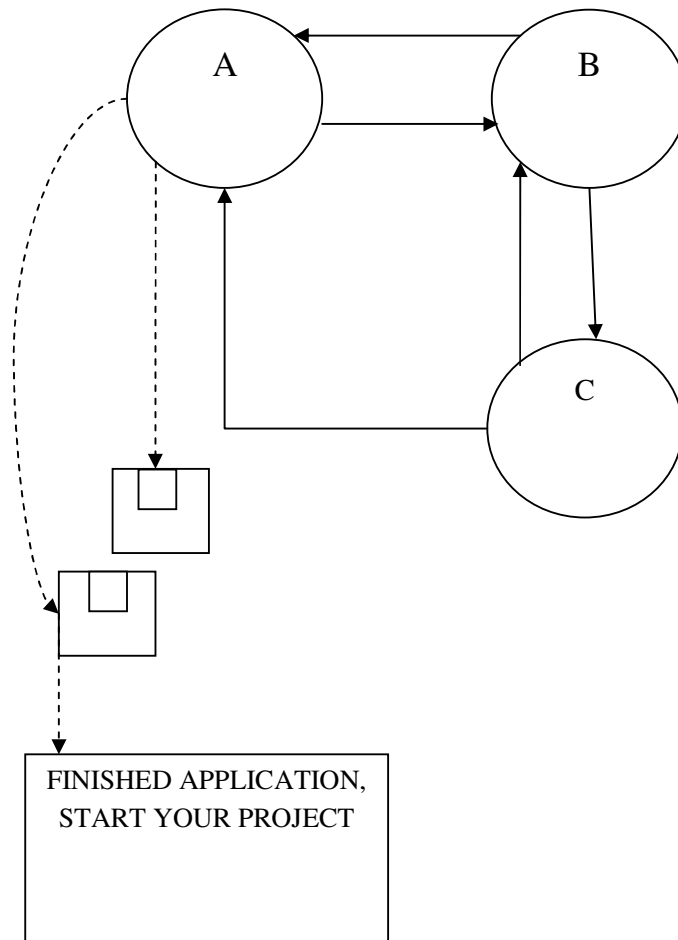
PLEASE TURNOVER

QUESTION ONE (30Marks)

a) What are Computer Programming Languages **(2mks)**

b) List four Measures of Quality for Business Applications **(4mks)**

c)In the Visual Basic IDE (integrated development environment), what is the importance of

the following windows

      i. Property Window **(1mks)**
      ii. Project Explorer **(1mks)**

d) What are the advantages of using Visual Basic programming language for developing

business applications over other computer programming languages? **(2mks)**

e)Discuss on the lifecycle of a form. **(4mks)**

f) Explain some of the Visual Basic features named below

      i. Automatic word completion
      ii. Color cueing **(2mks)**

g) Explain what Natural Languages are in programming languages, and where they are used
in development of computer based systems **(4mks)**

i) Discuss Assembly language highlighting on its advantages and disadvantages **(4mks)**

j) Discuss any three types of Database Models that are commonly used in keeping of records

in many organizations. **(6mks)**

QUESTION TWO (20Marks)

a) What is the goal of software engineering   **(2 mks)**

b) Answer the questions that are asked after the diagram below that shows the overview of

   the constructions process.

   i.   Explain the three Visual Basic Integrated Development Environment modes of
         operation that are represented by the letters A, B, and C.   **(3mks)**
   ii.   Explain the processes that are involved between A and the finished application (dotted
         lines have been used)   **(3mks)**

c) With flowchart, syntax and sample code, explain the SELECT CASE control structure

                                                                                                              (6mks)

d) Explain the Rapid Application Development (RAD) Software life cycle Model. **(6mks)**

QUESTION THREE (20Marks)

a) with a diagram, explain the Waterfall Model software lifecycle **(4mks)**

b) What are the main functions of the Data Control **(4mks)**

c) Object naming conversions of controls (prefix) have been suggested in the Microsoft documentations. They are very important in that make it easier for you and the other programmers to understand and edit your program. List FOUR controls and their corresponding prefixes and examples

CONTROL TYPE	PREFIX	EXAMPLE
1.		
2.		
3.		
4.		

(4mks)

d) Draw a Visual Basic interface of a login form that contains three command buttons: OK, CANCEL and SIGN IN, two textboxes that will allow the name and password and lastly write a code that will allow only authentic users to access the system. **(4mks)**

f) With flowchart, syntax and sample code, explain the IF - ELSE control structure **(4mks)**

QUESTION FOUR (20Marks)

a) Write a Visual Basic program that will illustrate what variables are. The program should contain the following.

    i. A interface of how the finished product that will be used by the user will appear

   ii. The visual basic code should contain at least three variables declared with the keyword "Dim". **(6mks)**

b) With flowchart, syntax and sample code, explain the WHILE looping statement.

(4mks)

c) Write a program to compute the total number of students who have passed in the FIRST,

   SECOND and THIRD class. The condition is

   Total Marks > 60 – First class
   Total Marks > 50 – Second class
   Total Marks > 40 – Third class
   Total marks < 40 – Fail   **(6mks)**

d) In order for the data control to deliver the goods (data from the database), two properties

   need to be set: name them and explain the functions of the two properties.   **(4mks)**