KABARAK UNIVERSITY

UNIVERSITY EXAMINATIONS

2008/2009 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF COMMERCE

COURSE CODE: BMGT 121

COURSE TITLE: INTRODUCTION TO BUSINESS
PROGRAMMING

STREAM: Y1S2

DAY: **WEDNESDAY**

TIME: **2.00 – 4.00 P.M.**

DATE: **13/8/2008**

INSTRUCTIONS:

1.   Answer **ALL** questions in section A and any **TWO** questions in section B

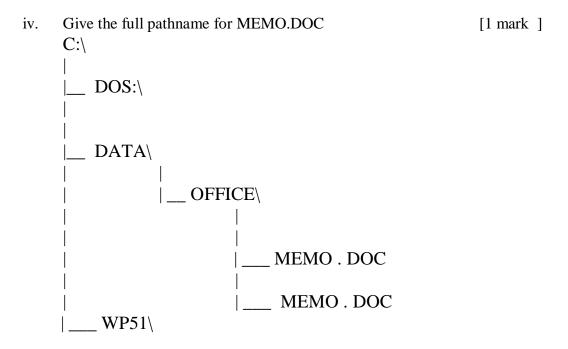2.   **Section A** carry **30 marks** while each question in **section B** carry **20 marks**

PLEASE TURN OVER

SECTION A   Compulsory (30 marks)

Question One (30 marks)

a)

    i.   Distinguish between dedicated ,special purpose and general purpose computers   [3marks]

    ii.   Other than purpose state two other methods of classifying computers and state the types of computers in each category   [4marks]

b) Explain the difference in the application of the following commands in a word document
    i.   save and save as   [2 marks]

    ii.   copy/paste and cut/paste   [2 marks]

c) Explain the purpose of the following categories of software
    i.   Application programs   [2 marks]

    ii.   System software   [2 marks]

    iii.   Software development tools   [2 marks]

d)

    i.   Explain why binary number system is best suited for use in computers   [2 marks]

    ii.   Distinguish between V.B.A and V.B. programming languages   [2 marks]

e)

    i.   Define the term "backup" and explain its importance in file storage   [3 marks]

    ii.   Explain the significance of including a file extension in a file name and the consequence of deleting it from a file name.   [3 marks]

    iii.   Distinguish between the file extension **.EXE** and **.DAT**   [2 marks]

iv.   Give the full pathname for MEMO.DOC   [1 mark]

```
C:\
|
|__  DOS:\
|
|
|__  DATA\
|            |
|            |__  OFFICE\
|                    |
|                    |
|                    |___  MEMO . DOC
|                    |
|                    |___   MEMO . DOC
|___  WP51\
```

SECTION B   Answer Any TWO Questions (40 marks)

Question Two (20 marks)

a)
  i.   Outline FOUR roles of an operating system in a computer system   [4 marks]

  ii.   Explain four differences between DOS and Windows operating system   [8 marks]

  iii. Outline the meaning of the following terms "*byte*" and "*hertz*" as applied in
        computing   [2 marks]

  iv.   Giving suitable examples distinguish between sequential and random access
        storage devices   [2 marks]

b) Outline FOUR advantages of high level programming languages   [4 marks]

Question Three (20 marks)

a) Read through the following paragraph and answer the questions there after

*O*ffice automation systems **(OAS)** are among the most rapidly expanding *computer based information systems*. Their advent has made office activities quite simple and effective. *Office automation* helps in optimizing existing office procedures. The backbone of office automation is a local area network

    i. Identify SIX formatting features that have been applied in this passage

        [3 marks]

    ii. Explain the meaning of the term *"office automation"*   [2 marks]

    iii. Explain the relationship between a computer based information system and an Information system   [2 marks]

    iv. Outline the office activities that have been simplified by the following computer programs.

- Word processors
- Spreadsheets
- Data base management systems
- E-mail systems   [4 marks]

b)

    i. With illustrations, differentiate between **absolute**, **relative** and **mixed** cell reference respectively in a spreadsheet   [3 marks]

    ii. Explain the purpose of Templates in the context of Ms office applications programs   [2 marks]

    iii. Outline FOUR typical uses of macros in the context of Ms office applications programs   [4 marks]

Question Four (20 marks)

a) A relational database used to record details of advertisements contain two tables which are related the tables are customer and advertisement tables with the following fields

customer table	Advertisement table
customerId	AdvertId
Name	Content
Address	DateAdvertPlaced NoOfNights
Customertype	Classification
	CustomerId

CustomerId and AdvertId are the primary key fields for the cutomer and Advertisement tables respectively

    i. What is a relational database   [2mark]

    ii. Distinguish between primary and foreign key fields   [2marks]

    iii. Explain the roles of a primary and a foreign key field in a table   [4 marks]

    iv. Name the attribute which is the foreign key in the advertisement table   [1mark]

    v. Indexes are created on customerId and Name attributes. What is an index and why is it used in a database   [3 marks]

b) Explain the meaning of the following terms with respect to data storage

    i. Data redundancy   [2 marks]

    ii. Data consistency   [2 marks]

    iii. Data integrity   [2 marks]

    iv. Data independence   [2 marks]

Question Five (20 marks)

a) Define the following programming language terminologies

      i. Source program

      ii. Object program

      iii. Compiler

      iv. Interpreter

      v. Assembler   [5 marks]

b) Explain the term Integrated development environment (IDE) as used in programming

                                                            [2 marks]

c) Describe two basic methods of adding a control to a form during form design in visual basic   [2 marks]

d) Explain the following programming concepts as used in visual basic

      i)   Visual programming

      ii)   Event-driven programming   [4 marks]

e) Differentiate between sub procedures and function procedures   [2 marks]

f) Write a visual basic program using a **For-Next** loop that will calculate the sum of odd numbers from 1 to 50 and out put the sum in a message box   [5 marks]