KABARAK **UNIVERSITY**

EXAMINATIONS

2008/2009 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF COMPUTER

COURSE CODE: **COMP 111**

COURSE TITLE: **COMPUTER PROGRAMMING**

STREAM: **Y1S1**

DAY: **WEDNESDAY**

TIME: **9.00 – 11.00 A.M.**

DATE: **25/03/2009**

INSTRUCTIONS:

SECTION A (COMPULSORY)
SECTION B (40 MARKS). Answer any two questions.

PLEASE TURN OVER

SECTION A (COMPULSORY)

QUESTION 1 (30 marks)
   (a) Explain briefly the meaning of Procedural language and give two examples of
        the same.   (2 marks)
            (b) i) What is the use of a variable?   (1 mark)
                ii) What are the rules for identifiers?   (3 marks)
     (c) i) Explain the meaning of "Event-driven Architecture?   (1 mark)
                 ii) Briefly write the evolution of the C language?   (4 marks)
         (d) i) Define an array?   (2 marks)
       ii) What is the meaning of Integrated Development Architecture (IDE) in VB?

                                                                                        (2 marks)

      iii) Explain briefly the meaning of the following:-
                I)   #include<stdio.h>   (1mark)
                II)   printf(" ")   (1mark)
                III)   #define   (1mark)

   e) i) What is a keyword?   (1 mark)
     ii) What are C Tokens? Name any two.   (5 marks)
    iii)Write the syntax for declaring a two dimensional array?   (2 marks)
     iii) Explain what happens in the following functions in a program?   (4 marks)

            ----
              if(sex is female)
            {
             if(balance>8000)
                 bonus=0.06 * balance;
              else
                 bonus=0.03 * balance;
             }
             else
             {
                bonus=0.03 * balance;
                balance=balance+ bonus;

            }

SECTION B (40 MARKS)

   Answer any two questions.

QUESTION 2(20 MARKS)

(a) Write a C program to display student information.   (10 marks)

(b) Explain the difference between While and Do---While looping statements. Give
the syntax for each with example.   (6 marks)

(c) Explain the three step process for planning a project in VB?   (4 marks)

QUESTION 3 (20 MARKS)

a) Write a program in C language that selects and prints the largest of the three
numbers using nested if……else statements?   (10 marks)

b) Explain the use of Arithmetic and Logical operators and give an example.
                    (10 marks)

QUESTION 4 (20MARKS)

a) Write a C program to calculate the area of a circle and its perimeter.   (6marks)

b) Name any 5 controls used in Visual Basic and briefly explain their usage.
                    (10 marks)

c) State three options for compiling a program in VB.   (4 marks)

QUESTION 5 (20 MARKS)

a) Consider:

```
main()
{
  int x;
  for(x=0;x<=5;)
  {
    x=x+1;
    x++;
    printf("%d",x);
  }
   printf("\n");
}
```

Required:-

i)   Write down the output of the code.   (2 marks)
ii)   Explain the use of X++   (2marks)
iii) Write the equivalent code using While loop instead of For loop.   (3marks)
iv)   Write the equivalent code using Do—While loop instead of For loop. (3 marks)

b) Write the syntax for the Switch case control statement and explain how it is used.
                                                                           (5 marks)
c) With the help of a syntax and example explain how the simple If control statement
    is used.
                                                                           (5 marks)