

**KABARAK**



**UNIVERSITY**

**EXAMINATIONS**

**2008/2009 ACADEMIC YEAR**

**FOR THE DEGREE OF BACHELOR OF BUSINESS  
MANAGEMENT AND INFORMATION TECHNOLOGY**

**COURSE CODE:    BMIT 226**

**COURSE TITLE:    COMPUTER PROGRAMMING**

**STREAM:            Y2S1**

**DAY:                MONDAY**

**TIME:               8.30 -11.30 A.M.**

**DATE:               08/12/2008**

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**INSTRUCTIONS:**

- Answer **all questions in section A** and any **two questions from section B.** and Any **TWO** questions from **Section C**

**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) Highlight the rules for identifiers? (3 marks)
- (c) i) Briefly explain the meaning of “Event-driven Architecture? (1 mark)  
ii) Briefly explain about the object model in Visual Basic? (5 marks)
- (d) i) Expand the following abbreviations :  
I) ANSI  
II) GUI (2 marks)  
ii) What is the meaning of Integrated Development Architecture (IDE) in VB? (2 marks)  
iii) Explain briefly the use of the following in the C language:-  
I) #include<stdio.h>  
II) #define  
III) printf(“ ”) (3 marks)
- e) i) Define a keyword? (1 mark)  
ii) With example explain about C Tokens? Name any two. (2 marks)  
iii) Distinguish between Relational operators and Logical operators with example? (2 marks)  
iv) Give the syntax of the conditional operator (?). (2 marks)
- f) i) Differentiate between Check box and List box? (1 mark)  
ii) Define database? (1 mark)  
iii) What will be the output of the following program? (2 marks)

```
main()
{
    int i,sum;
    sum=0;
    for(i=0;i<=10;)
    {
        sum=sum+i;
        i++;
        printf(“sum=%d”,sum)
        printf(“\nthe values of i=%d”,i);
    }
    printf(“\n”);
}
```

## SECTION B (40 MARKS)

Instructions: Answer any two questions.

### QUESTION 2 (20 MARKS)

- (a) Write a C program to display student information (5 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? (5 marks)

(d) Briefly explain the terms as used in Relational Database:-

- I) Attribute
- II) Primary key
- IV) Tuple
- V) Domain (4 marks)

### QUESTION 3 (20 MARKS)

a) Write the code for each of the command buttons in the interface bellow assuming the system is connected to a database.(assume the database connection methods)

EmpNo		
EmpName		Next
EmpPhone		Previous
		Add
		Delete

  

<	<	Data1	>	>
---	---	-------	---	---

(8 marks)

b) State and explain five activities that a business information system does to produce information that is of value to the organization. (5 marks)

- c) Explain the use of Arithmetic and Logical operators and give an example. (7 marks)

#### QUESTION 4 (20MARKS)

- a) Write a C program to calculate the area of a circle and its perimeter. (6 marks)
- b) Name any 5 controls used in Visual Basic and briefly explain their usage. (4 marks)
- c) State three options for compiling a program in VB. (3 marks)
- d) Make short note on Common Dialog Control (7 marks)

#### SECTION C

Answer any two questions

#### QUESTION 5 (15 MARKS)

- a) Consider:

```
main()
{
    int x;
    for(x=0;x<=9;)
    {
        x=x+1;
        x++;
        printf("%d",x);
    }
    printf("\n");
}
```

Required:-

- i) What will be 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 syntax for the simple If control statement. state and explain its usage. (5 marks)

**QUESTION 6 (15 MARKS)**

- a) Design the user interface and plan the properties and write the coding to calculate simple interest of an employee using VB. (10 marks)

<b>Principal</b>	
<b>Years</b>	
<b>Rate</b>	
<b>Interest</b>	
<b>Calculate</b>	<b>Clear</b> <b>Exit</b>

- b) Write the syntax for the Switch case control statement and explain how it is used. (5 marks)

**QUESTION 7 (15 MARKS)**

- a) What is a Query? (2 marks)  
b) Define a table ? (2 marks)  
c) How does data differ from information? (2 marks)  
d) Write an SQL code which can display student information on a table. Show the output on a table. (5 marks)  
e) Give a procedure of adding (loading) child Forms to the parent Form. (4marks)