

## UNIVERSITY

## UNIVERSITY EXAMINATIONS

## 2009/2010 ACADEMIC YEAR

## FOR THE DEGREE OF BACHELOR OF BUSINESS MANAGEMENT

 \& INFORMATION TECHNOLOGY AND BACHELOR OF
## TELECOMMUNICATION

## COURSE CODE: BMIT 226

COURSE TITLE: COMPUTER PROGRAMMING

STREAM: Y2S2

DAY:
FRIDAY

TIME:
9.00 - 12.00 P.M.

DATE:
26/03/2010

## INSTRUCTIONS:

Answer question ONE and any other THREE

## PLEASE TURN OVER

## SECTION A: Answer Question Is Compulsory

## QUESTION ONE (40 marks)

a. Write notes on message passing and polymorphism
b. Using a suitable example write while statement syntax and explain it
[4 marks]
c. Explain any four derived data types used in C language
d. Write a C program to compute the student grade based on the marks he scored

MARKS
80 To 100
60 To 79
50 To 59
40 To 49
0 To 39

GRADE
Honours
First Division
Second Class
Third Divisions
Fail

The program should print student Roll Number, Name and grade obtained.
e. Explain steps used to execute a C program
[4 marks]
f. Write a c++ program to find the largest value of any three numbers entered by the user through the keyboard.
g. Describe enumerated data type as used in C++
k. Using a suitable example explain for loop statement .
m . Discuss elements of user defined functions
[2 marks]

## SECTION B: ANSWER ANY THREE QUESTIONS

## QUESTION TWO (20 Marks)

```
a) Identify the error and rewrite the program
                                    [4 marks]
        # include <stdio.h>
        main
    {
            int A,b, sum;
            printf ("ENTER VALUE FOR A ; ")
            scanf ("%d",$a);
            printf(ENTER VALUE FOR B ;");
            scanf("%d",&b);
```

```
        sum=a+b
        printf("Sum Of Given Two Numbers are %d" Sum);
    } }
```

b) Write a c language program to read a number and find whether the given number is even or odd.
c) Write a c++ program to find factorial of given number
d) . Explain five principles of object oriented programming

## QUESTION THREE (20 Marks)

a) Using else if statement write a c++ program to display the day depending ion the choice entered by the user from the key board
b) Identify the error and correct the program.
\#include<stdio.h>
main()
\{
int i;
printf("enter a number")
scanf " ",\&i);
if(i<=50)
printf("\n entered number is $<50$ )
c) Describe the class structure
[4 marks]
d) (i) What is a Pointer
[ 2 marks]
(ii) Describe four the advantages of using pointers
[4 marks

## QUESTION FOUR (20 Marks)

a) (i) What is variable.
[1 marks]
(ii) What are the rules followed when declaring it.
[3 marks]
b) Differentiate the following:
(i) Compiler
(ii)Translator
c) Discuss any three advantages for using functions in a program
d) Describe the following functions.
(i) Call by value
(ii) Call by reference
(iii) Inline function
e) Write a program to calculate the area of triangle
[5 marks]

## QUESTION FIVE (20 Marks)

a. (i) What is inheritance? [2 marks]
(ii) Discuss any four types of inheritance available in c++. [4 marks]
b. Write a C++ program to find the sum of first 100 natural Numbers using for loop Statement
[4 marks]
c. Write a C program to accept student roll no, marks in 3 subjects and calculate total, average and print it [5 marks]
d. (i) What is a constructor
[1 marks]
(ii) When are they used in a program
[3 marks]
e. Explain any two logical operators used in c++
[2 marks]

