

**KABARAK**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**2009/2010 ACADEMIC YEAR**

**FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE**

**COURSE CODE: COMP 212**

**COURSE TITLE: OBJECT ORIENTED PROGRAMMING**

**STREAM:               SESSION IV**

**DAY:                   FRIDAY**

**TIME:                 2.00 – 4.00 P.M.**

**DATE:                 13/08/2010**

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**INSTRUCTIONS:**

- Attempt **QUESTION ONE** And Any Other **TWO**

**PLEASE TURNOVER**

**QUESTION ONE (30 marks)**

a. State and explain any four principles of object oriented programming [4 marks]

b. (i) What is a function? [2 marks]

(ii) What is a key word? State two examples [2marks]

c. Study carefully the following program and trouble by rewriting to be executable. [4 marks]

```
#include <iostream.h>
void main
{
float X,Y;
cout << " enter any two numbers \n";
cin << x<<y
(x > y)
cout << "largest value is "<< x << endl;
else
cout<< "largest value is " <<y<< endl
```

d. Write a C++ program to find sum and print of three numbers entered by the user [6 marks]

e. Using a suitable example write and explain the structure of switch statement [5 marks]

f. (i) What is inheritance? [1 marks]

(ii) Discuss any four types of inheritance available in c++. [6 marks]

**QUESTION TWO (20 marks)**

a. What is a class? Describe its structure [4 marks]

b. What is identifier? What are rules followed when declaring a identifier? [4 marks]

c. Write a c++ program to find factorial of given number [6 marks]

d. Write a program to find area of a triangle [6 marks]

**QUESTION THREE (20 marks)**

- a. What is an array? What are rules used when declaring an array? [4 marks]
- b. Discuss about enumerated data types with example [4 marks]
- c. Using a suitable example describe inline function [4 marks]
- d. Explain memory allocation techniques [2 marks]
- e. What is a Pointer [2 marks]
- f) Describe the structure of if else statement using a suitable example [4 marks]

**QUESTION FOUR: (20 marks)**

- a. Describe any three conditional statements [6 marks]
- b. What is the use of conditional operator? [2 marks]
- c. Briefly explain call by value and call by reference [4 marks]
- d. Write a program to find odd and even numbers in the given array. [4 marks]
- e. Write and explain the syntax of do - while [4 marks]