

KABARAK



UNIVERSITY

EXAMINATIONS

2008/2009 ACADEMIC YEAR

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

COURSE CODE: COMP 111

COURSE TITLE: INTRODUCTION TO PROGRAMMING

STREAM: SESSION II

DAY: WEDNESDAY

TIME: 2.00-4.00 P.M.

DATE: 26/11/2008

INSTRUCTIONS:

Attempt **Question ONE** and **Any other TWO**.

PLEASE TURN OVER

QUESTION ONE (30 marks)

- a. Explain steps used to execute a C program 4 marks
- b. Using a suitable examples explain any three looping statements 6 marks
- c . Identify the error and correct the program. 4 marks
- ```
main()
{
 int i;
 printf("enter a number")
 scanf "%i";
 if(i<=50)
 printf("\n entered number is <50)
```
- 4 marks
- d. Write the syntax of switch case statement and explain it 4 marks
- e. Explain about call by reference and call by value 4 marks
- f. Differentiate between structure and union in terms of their storage 4 marks

**QUESTION TWO (20 marks)**

- a. Explain any four data types used in C language 4 marks
- b. Write the syntax of if else statement 4 marks
- c. Write a program to find sum, average of any two numbers entered by the user. 5 marks
- d. Explain the following terms:  
(i) malloc()  
(ii) free() 4 marks
- e. Explain the use of continue and break statements 3 marks

**QUESTION THREE (20 marks)**

- a. What is array ? State the rules used to declare the array 4 marks
- b. What is a function? Classify types of functions 4 marks

- c. What is function calling 2 marks
- d. Using a suitable example define a constant. Classify the constants 4 marks
- e. What is identifier 2 marks
- f. Using a suitable example explain the main use of enumerated data types

**QUESTION FOUR (20 marks)**

- a. Describe the basic structure of a C program 4 marks
- b. What is a keyword? State four examples 4 marks
- c. Write a C program to print student name, roll no, marks 2 marks
- d. Write a program using switch case to display the day depending on the case entered where by the case should be 1 to 7. 6 marks
- e. Explain the following terms  
(i) Compiler  
(ii)Translator 4 marks

**QUESTION FIVE (20 marks)**

- a Write a program to check whether the character entered is a vowel or not 5 marks
- b.What is the difference between Do and Do While 4 marks
- c. Explain the following terms :  
(i) Low level language  
(ii) High level language 4 marks
- d. Discuss any four types of operators 4 marks
- e. Discuss any three advantages for using functions in a program 3 marks