KABARAK



UNIVERSITY

UNIVERSITY EXAMINATIONS

2009/2010 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF EDUCATION

SCIENCE

COURSE CODE: COMP 111

COURSE TITLE: INTRODUCTION TO PROGAMMING

- STREAM: SESSION II
- DAY: THURSDAY
- TIME: 2.00 4.00 P.M.
- DATE: 08/04/2010

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 errors in the program below, correct them and explain the output thereof. (4 marks)		
main() {	``````````````````````````````````````	
int i; printf("enter a number") scanf " ",&i); if(i<=50) printf("\n entered number is <50)		
d. Write the syntax of switch case statement and explain it	(4 marks)	
e. Write an assembly language program to add two numbers x and y and in z.	store the result (4 marks)	
f. Differentiate between call by value and call by reference functions.	(4 marks)	
g. Discuss the unary operator with a sample program.	(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 three numbers which are user through the key board.	entered by the (5 marks)	
 d. Explain the following terms functions with their syntax (i) strcpy() (ii) strcat() e. Explain the use of continue and break statements with their format 	(2 marks) (2 marks) (3 marks)	
QUESTION THREE (20 MARKS)		
a. What is an array? State four rules used to declare the array	(5 marks)	
b. Write a program using the nested-if statement and explain it	(5 marks)	
c. Explain the importance of using control statements in programming	(3 marks)	
Page 2 of 3		

d. Using suitable examples classify the constants in C language.	(4 marks)
e. What is an identifier? List the rules used when writing identifiers.	(3 marks)
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 where by the case should be 1 to 7.e. Differentiate between a compiler and an interpreter.	case entered (6 marks) (4 marks)

QUESTION FIVE (20 MARKS)

a. Write a program in C language to check wether the character entered is a vowel or not		
b. What is the difference between while and Do-While statements?	(5 marks) (4 marks)	
c. Explain the factors that led to the development of 3 rd generation progra languages.	mming (4 marks)	
d. Describe the classification of binary operators in C.	(4 marks)	
<pre>e. Write and explain the output of the following c program. #include<stdio.h> main() { int a=6, b=10; printf("a=%d\n,a++); printf("b=%d\n,++b); } }</stdio.h></pre>	(3 Marks)	
printf(``b=%d\n,++b); }		