



UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010 ACADEMIC YEAR

FOR THE DEGREE OF BACHELOR OF COMPUTER SCIENCE

COURSE CODE: COMP 111

COURSE TITLE: INTRODUCTION TO PROGAMMING

STREAM: Y1S1

DAY: WEDNESDAY

TIME: 2.00 - 4.00 P.M.

DATE: 09/12/2009

INSTRUCTIONS:

Attempt Question ONE and Any other TWO.

QUESTION ONE (30 marks)

a. Explain steps used to execute a C program

[4 marks]

[8 Marks]

b. Write a C program to compute the student grade based on the marks he scored

MARKS	GRADE
80 To 100	Honours
60 To 79	First Division
50 To 59	Second Class
40 To 49	Third Divisions
0 To 39	Fail

The program should print student Roll Number, Name and grade obtained.

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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. Differiante between structure and union in terms of their storage [2marks]

QUESTION TWO (20 marks)

a. Explain any four derived data types used in C language

[4 marks]

- b. Write a program to print largest value in the given list using if else statement [6marks]
- c. Write a program to find sum, average of any three numbers which are entered by the user through the key board. [5 marks]
- d. Explain the following functions:
 - (i) malloc()
 - (ii) free()

[2marks]

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. Write a program to find the sum of numbers between 500 to 1500 us	ing Do while loop
	[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 ty	pes [4 marks]
QUESTION FOUR (20 marks)	
a. (i) What is a function?(ii) Classify types of functions	[2 marks] [2 marks]
b. (i) What is a keyword?(ii) State four examples	[1 mark] [2 marks]
c. Write a C program to print student name, roll no, marks	[3 marks]
d. Write a program using switch case to display the day depending on t where by the case should between 1 to 7.	he case entered [6 marks]
e. Explain the following terms (i) Compiler (ii)Translator	[4 marks]
QUESTION FIVE (20 marks)	
a. Write a program to check wether the character entered is a vowel or	not [5 marks]
b. What is the difference between Do and Do While [4 r	marks]
c. Explain the following terms: (i) Low level language (ii) High level language	[4 marks[]
d. Explain for loop syntax using a suitable example	[4 marks]
e. Discuss any three advantages for using functions in a program	[3 marks]