



UNIVERSITY EXAMINATIONS
KISHI UNIVERSITY COLLEGE
MAIN CAMPUS

SECOND YEAR EXAMINATION FOR THE AWARD OF
THE DEGREE OF BACHELOR OF COMMERCE/BUSINESS
MANAGEMENT/ENTREPRENEURSHIP/PURCHASING AND SUPPLIES
MANAGEMENT

FIRST SEMESTER 2011/2012
(SEPTEMBER - DECEMBER, 2011)

BCOM/BBAM 270 - COMPUTER PROGRAMMING I

STREAM: BCOM/BBAM/BENS/BPS Y2 S1

TIME: 2 HOURS

DAY: TUESDAY, 8.30 - 10.30 A.M

DATE: 20/12/2011

INSTRUCTIONS

1. *Do not write anything on this question Paper.*
2. *This paper has two parts: Section "A" and Section "B".*
3. *Section "A" is COMPULSORY and carries 30 marks.*

SECTION A: [30 MARKS]

QUESTION ONE

- a) i) Define the term programming language [1 Ma]
- ii) Differentiate between a general purpose and a specific purpose programming language with two examples each. [4 Ma]
- b) Describe the drawbacks of Machine Language. [2 Ma]
- c) Differentiate between the following programming terminologies:
- i. Loader and Linker. [2 Ma]
- ii. Assembler and Compiler. [2 Ma]
- iii. Testing and debugging [2 Ma]
- d) With an example, explain the following:

i. Sequence Structure Flow chart

[2 marks]

ii. printf

[2 marks]

iii. Pseudo code

[2 marks]

e) Write a simple program to display the following string of text "IT WAS NICE LEARNING C PROGRAMMING. MERRY X-MASS"

[3 marks]

f) Explain four advantages of flow charts in program development

[4 marks]

g) Using a typical example, explain a Pre-Test Repetition Structure

[4 marks]

SECTION B

QUESTION TWO

a) Write a program in C that accepts two numbers and checks whether they are equal or not.

[4 Marks]

b) Explain an object code

[2 marks]

c) Discuss any 3 different ways used in categorizing Programming languages

[3 Marks]

d) Differentiate between the WHILE and DO-WHILE statements.

[3 Marks]

e) Explain two types of errors (bugs) in programming.

[2 Marks]

f) i) Write brief notes on 5th (5 GLs) generation of programming languages

[3marks]

ii) Explain any 3 quality requirements of a computer program

[3 marks]

QUESTION THREE

a) Explain three methods of error detection

[3 marks]

b) Draw a flowchart for the following pseudo code

[3 marks]

WHILE balance >0 DO

 Withdraw cash

 Update account

END WHILE

c) Using a suitable example, describe structure of SELECT CASE statement.

[4 mark]

d) Write a program in C that will add any two numbers entered by a user

[4 mark]

e) i) Explain how an infinite loop is created and how it can be avoided

[2 mar]

ii) Using a diagram, explain a repetition structure flow chart

[4 mar]

- ii. Draw a flow chart for the program above
- i. Explain the advantages of using modules in program development
- i. Explain briefly the 6 stages of program development

[5 marks]

[4 marks]

[6 marks]

QUESTION FOUR

- a) Explain the steps used to write and execute a C program using PELLES compiler [3 marks]
- b) i) Explain what is meant by the term flow chart [1 mark]
- ii) Using a typical example, draw a decision structure flow chart [4 marks]
- c) i) Identify the errors and correct them in the program below. [4 marks]

```
main{  
  
{  
  
int i;  
  
printf("enter a number")  
  
scanf " ",&i);  
  
if(i<=50)  
  
printf("\n entered nu mber is <50)
```

- ii) Explain the types of errors identified in (i) above [2 marks]
- d. i. Write a C program to find sum and average of any two numbers entered by the user [4 marks]
- ii. Write the general format of the IF.....THENELSE control structure [2 marks]

QUESTION FIVE

a. The following marks are provided as shown below:

1. Marks from 95 and above, one would get grade 'A'
2. Marks from 80 and above, one would get grade 'B'
3. Marks from 60 and above, one would get grade 'C'
4. Marks from 50 and above, one would get grade 'D'
5. Anyone whose score is less than 50, would be an 'F'

Expected:

- i. Write a program that will allow the user to enter names of the student, marks obtained in 5 subjects (French, Kiswahili, Maths, Geography and Computer). The program should calculate the total and average marks for each student and assign the grading as shown above.

[5 marks]