

(Knowledge for Development)

KIBABII UNIVERSITY COLLEGE

A CONSTITUENT COLLEGE OF MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS

2014/2015 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER

MAIN EXAMINATION

FOR THE DEGREE OF BSC COMPUTER SCIENCE

COURSE CODE: CSC 121 B

COURSE TITLE: PROCEDURAL PROGRAMMING

DATE: 27TH APRIL, 2015 **TIME**: 3.00PM-5.00PM

INSTRUCTIONS TO CANDIDATES

Answer Question One in Section A and Any other TWO (2) Questions in Section B

TIME: 2 Hours

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

This paper consists of FIVE Questions. Answer Question ONE [30 Marks] and any other TWO Questions [20 Marks Each]. Write your college number on the answer sheet.

This paper consists of 3 printed pages

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

© APPRIL 2015 The KIBABII University College Examinations SECTION A	
Question 1: [30 MARKS] Compulsory a)	
i. Define the following terms A. Local Variable B. Global Variable C. Pre processor D. Function	(4 marks)
ii. Explain the TWO usages of Break statement.	(3 marks
iii. Outline all the FOUR parts of a function.	(4 Marks)
iv. Explain any THREE inbuilt classes for file operation and the Purpose of each	(6 marks)
 b) i. Outline EIGHT rules that apply to a switch statement. ii. Show using the appropriate syntax how you do the following file operations a) Opening file for appending 	(8marks)
b) Write to the file	(5 marks)
SECTION B: Answer any Two Questions from this section Question 2: [20 Marks] a) Write a program using a nested for loop to find the prime numbers from 2 to 100	(10 marks)
 b) Write a program in c++ that accepts input of two numbers and swaps Two number function which is called in the main program to output the results Question 3: [20 Marks] 	rs using a pointer (10 marks)
a) With the aid of a flowchart, write a program in C++ language that outputs a multiplication	table of 7 by 7. (10 marks)
b) With the aid of a diagram write a program in C++ Language that calculates the area of a and triangle. The program should give an option Menu to enable the user calculate what	
Question 4: [20 Marks]	

 i) Study the C++ code Shown below #include <iostream.h> void main(){ { int x, product, count; product=1; While(count<10) {

```
cin>>x;
product=product*x;
++count;
}
}
```

Rewrite the C++ loop above Using

- a) For Loop
- b) do while loop
- ii) write a c++ program to output the code below

Question 5: [20 Marks]

- i) Write down the output of each of the following pieces of C++ codes
 - a) for(int=2;i<10;i+=3){
 cout<<i<<" ";
 b) for (int i=10; i>=2; i- -;)
 {
 cout<<(i*i)<<"\t";
 - }

```
c) int i=1;
while (++i<5){
cout<< i;
}
```

d) int m,n;

d) int in,it, for (m=1;m<=5;m=m+1) { for (n=1;n<=3;n++) { cout<<m<<n<<" \t"; cout<<" \n"; } } e) int m,n; for (m=1;m<=5;m++) { for (n=1;m<=2;m++) for (n=1;m<=2;m++) { for (n=1;m<=2;m++) for (n=1;m) for (n=1;m) for (n=1;m) for (n=1;m) for (n=1;m)

```
for (n=1;n<=3;n++)
{
cout<<m+n<<"+ ";
```

cout<<" \n";

(5 Marks) (5Marks) (10 Marks)

(15 Marks)

}
Write a C++ code to input Array contents using a pointer. The user should determine the size of the array. (5 Marks)