



Riara School of Business
Nurturing business innovators

MAY - AUGUST TRIMESTER, 2015 EXAMINATIONS
DAY PROGRAMME
EXAMINATION FOR DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY

BDT 010 BASIC CONCEPTS IN COMPUTER PROGRAMMING

DATE:

TIME: 2 HOURS

INSTRUCTIONS

- i) Answer question one and any other two**
 - ii) Marks allocated to each question are shown at the end of the question**
 - iii) Arrange your work neatly and indicate the questions answered in the Examination booklet**
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QUESTION ONE: COMPULSORY (30 MARKS)

- a) List and briefly describe any five data types supported by C programming language**
(10 marks)
- b) List and describe the three levels of programming languages.**
(6 Marks)
- c) Give four examples of arithmetic operators in C**
(4 marks)
- d) With the aid of an example, write the general syntax of declaring a variable and assigning values to the declared variable**
(6 marks)
- e) Highlight any four features of C programming language**
(4 marks)

QUESTION TWO

- a) Write a C program that prompts the user to enter three numbers; computes the sum and displays the sum result on the screen. **(10 marks)**
- b) Explain the purpose of the functions as used in C program. **(2 marks)**
- c) Explain using examples the difference between
- i. User defined functions
 - ii. Library functions **(8 marks)**

QUESTION THREE

- a) Identify the errors in the program shown below:-

```
#include<stdio.h>
void Main()
int xnumber,number 2;
printf("enter the first number/n");
scanf("%f",&xnumber);
printf("enter the second number\n");
scan("%d",&number2);
printf("the answer is %d",sum);
}
```

(6 marks)

- b) Differentiate between:-

- i. Structures & Arrays
- ii. Source code & object code
- iii. Structure & union
- iv. Compiler & interpreter **(8 marks)**

- c) Write a C program that calculates area of a triangle **(6 marks)**

QUESTION FOUR

- a) Using an example, illustrate how a one dimensional array is declared in C language **(6 marks)**

b) Define the term pseudocode as used in programming. **(2 marks)**

c) Write a pseudo code description of a program that reads two numbers, calculates the average of the entered numbers and prints the average results

(6 marks)

d) Define the following terms as used in structured programming:-

- i. Local variable
- ii. Global Variable
- iii. Programming language
- iv. Machine code
- v. Function
- vi. array

(6 marks)