

First Assignment

Subject: Introduction to Computer Programming (CS-111)

Sem: First Sem BS(ICAS)

Max. Marks: 05M

Note: All questions carry 5M each.

1.a) What is a Computer? Briefly describe key characteristics of a Computer.

1.b) With a neat sketch, explain the system unit.

1.c) Write the functions of Control Unit. [2+2+1=5M]

2.a) Explain the different symbols used in flowchart.

2.b) Write a flowchart to find factorial of a given number.

2.c) Write an algorithm and flowchart to find whether a given number is palindrome or not. [2+1+2=5M]

3.a) Briefly explain the characteristics of an algorithms.

3.b) Write an algorithm and flowchart to find roots of quadratic equation.

3.c) Explain the Basic structure of C/C++ program with an example. [1+2+2=5M]

4.a) What are constants? Briefly explain the basic types of C/C++ constants.

4.b) Briefly explain the basic type of C/C++ with an example.

4.c) Briefly explain the following with an example. [2+1+2=5M]

(i) Relational operators (ii) Logical operators

5.a) Write a program to read three values from the keyboard and printout the largest and smallest of them without using if statement.

5.b) Briefly explain general form or syntax, flowchart and an example of the following. [2+(1.5+1.5)=5M]

(i) The if...else statement (ii) The switch statement