## University of Sargodha

## M. Sc. I. T, First Term Exam 2014

Sul get: Information Technology Paper: Programming Fundamentals (CMP: 2122) Maximum Marks: 60 Time Allowed 2:30 Hour Note: Objective part is compulsory. Attempt any four questions from subjective part. Objective Part (2\*12)Write short answers of the following on your answer sheet. Q.1. What is the difference between while and do-while loops? What is struct keyword in C? Wh main function is necessary in each C program? What is the use of compiler in C language?  $-b\pm\sqrt{b^2-4ac}$ Convert following algebraic equation into C expression Vvi. What is flow-chart? What is continue statement? vii. What is function prototype in C? A viii. Give 2-dimensional C array declarations of different types. x. What is pass by reference in C? Give suitable example. xi. A What is the relationship between C pointers and arrays? What is switch statement?; · XII.  $(9 \times 4)$ Subjective Part Develop a C program to sort array of following data: 78, 23, 45,12, 60, 67, 32. Q.2. Develop a C program to read the temperature of a week on daily basis, and print the temperature Q.3. in ascending order. Develop a C program to calculate the cube value of number given(by a user.) Draw flow-chart and develop a C program to find class average grade with counter controlled ropotition. Write a function to calculate the factorial (of any integer number given by user) and use this function into a C program. Write a program that has a structure to store Date (day, month, year), create two Date type

variables, use) these variables to store two dates and display these dates.