

University of Sargodha

BS 1st Term Examination 2015

Subject: Computer Science

Paper: Programming Fundamentals (CMP:2122)

Time Allowed: 2:30 Hours

Maximum Marks: 60

Objective Part

Compulsory

Note: Attempt all questions each question carry equal marks?

(12*2=24)

- i. What is **Object Code**?
- ii. What are **comments** and how to use them in a C program?
- iii. Why we use **do-while** loop in C?
- iv. What is variable **initialization** and why is it **important**?
- v. What is the **Low level** language?
- vi. List the different types of **control structures** in C?
- vii. What is function **prototype**?
- viii. What is syntax error?
- ix. What is the purpose of **struct** keyword in C?
- x. What is the advantage of an **array** over individual **variables**?
- xi. What are escape sequences?
- xii. What is linker?

Subjective: (4*9=36)

Note: Attempt any four questions.

- Q 2. Write a program that takes year as input (type int) and then determines whether year is leap or not.
- Q 3. Write a program that displays the following output using **nested loop**.
- ```
*


```
- Q 4. Write a C program that **copies the content** of text file "**Book1.txt**" to other new file "**Book2.txt**".
- Q 5. Write a program that takes eight (8) elements (array) from the user. **Sort** the array in **ascending** order.
- Q 6. Write a C program to find **power** of a number using function **recursion**.
- Q 7. Write a program that defines a structure **Student** to store **StdId** (type int), **StdRoll** (type string) and **StdMarks** (type float). In main () declare array of structure variables (**size 2**), input records of two BSCS students and then display the records.