**Computer Science and Information Technology Department, UoB, Quetta**

**Course: Programming Fundamentals**

**BSCS 1st 2019-2023 (Afternoon) Terminal Exam 2019 Max Marks: 40**

**Note: Do not write anything on question paper except your roll number. Attempt all questions.**

**Question No 1:**

**i)** Write a function **convert,** which accepts one char and return one char. The function should convert upper case letter e.g. **A** to lower case **a.**

**ii)** Write main function and call convert function by passing it A as argument.

**Question No 2: a) True or False**

1. char name[15] can store 15 characters.

2. A string in c is an array of characters ending in the null character.

3. To define a string **char program[] = “BSCS”** or **char \*program=”BSCS”** can be used.

4. characters are often manipulated as integers.

5. EOF has a value of -1.

**b) give short answers. (write only the name of the function)**

1. which function converts a sequence of characters representing floating point to double.

2. which function is used to open a file.

3. which function is used to close a file.

4. which function prints a string followed by a new line.

5. which function is used to calculate the storage size of a data type.

**Question No 3:** Write complete C program as instructed below:

i) Create a structure **Contact**, that can store **name**, **email** and **mobile** number of a person.

ii) Create one variable of **Contact** type and name it **cont\_one**.

iii) Initialize **cont\_one** with values (“yourname”, “[y](mailto:imrandotcs@gmail.com)ouremail@domain.com”, “0300-xxxxxxx”)

iv) write C statements to display values of **cont\_one.**

**Question No 4:** Write a c program that stores the **Contact** structure as mentioned in *Question No 3* in a file **“contacts.dat”**