**Course:** Computer applications **Program:** BS (Microbiology/MLT)

**Semester:** 4th **Major Assignment**

**Total Marks:** 50 **Instructor:** Zakir Rahim

Due Date: 4th July, 2020

**Instructions:**

* Students are required to solve the provided assignment and upload it on SIC in due time.
* The solutions can be type-written or hand-written.
* In case of handwritten solutions, you are required to copy pictures of the solved assignment in Ms-Word and upload it.
* The solutions must be uploaded either in Ms-Word format or pdf format.
* Students are required to save the file with their name and student id. For example ahmad\_12345.

Q1. (a) Differentiate between plotter and printer? (6)

(b) What is barcode? Explain, barcode reader? (6)

Q2. (a) Write a note on flatbed scanner? (6)

(b) Explain the printing process of an ink jet Printer? (8)

Q3. (a) Explain Wide Area Network (MAN) with suitable examples? (7)

 (b) Define topology? Write a few advantages of bus topology? (7)

Q4. In your opinion, what are the different types of common media used for storage, access and transmission of information? Explain each type in detail? (10)