**Course:** Computer applications/Skills/ITC/CAB **Program:** BS

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

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

Due Date: 25th Sep,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 open source software and applications software? (6)

(b) Write different features of system software? (6)

Q2. (a) Discuss different functions of operating system? (6)

(b) Explain the use of File Transfer Protocol and TelNet services ? (8)

Q3. (a) Explain Metropolitan Area Network (MAN) with a suitable example? (7)

(b) Define topology? Which topology would you chose to setup a local area network and why? (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)