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| animatedLOGO | **Assignment No. 01 (Graded) Fall 2024 CS610- Computer Networks** | | **Total Marks: 20**  **Due Date: 8th Novmber, 2024** |
| ***Instructions:***  **Please read the following instructions carefully before solving & submitting the assignment solution:**  **It should be clear that your assignment will not get any credit (zero marks) if:**   * **The assignment is submitted after the due date.** * **The submitted assignment solution does NOT open or the file is corrupt.** * **The assignment is copied (from other students or ditto copy from handouts or the internet).** * **Please ensure that your assignment submission is in .doc or .docx format. Other formats such as scanned images, PDFs, .zip, .rar, .bmp, etc., will not be accepted.**   ***Objectives:***  The objectives of this assignment are:   * Topology, transmission speed. * Ethernet Data encoding scheme . * To make them understand various LAN Technologies and their speeds.   **For any query about the assignment, contact at** [**cs610@vu.edu.pk**](mailto:cs610@vu.edu.pk)  **GOOD LUCK** | | | |
|  | | **Marks: 20** | |

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| **Question No. 1: (Marks 10)**  **Ethernet is Manchester encoding. It uses signal changes to encode data. Consider the following figure, it uses the Manschester scheme. You are required to write the data string (0s and 1s) that are used to produce the following signal.**  **Suppose to encode 0, signal changes from high to low voltage.**    **Question No. 2: (Marks 10)**  **Match the Column A to the technology mentioned in column B.**   |  |  | | --- | --- | | **A:** | **B:** | | tracert | Check the target PC is online. | | Data Transfer Rate | Broadcast | | Ring Topology | MB | | File Size | Hop count. each computer in between source and destination PCs on internet. | | Ping | Mbps | |
| **Lectures Covered:** This assignment covers Lectures # 1 to 9.  **Deadline:** Your assignment must be uploaded/submitted on or before the due date. |