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| animatedLOGO | **Assignment No. 01  Semester: Spring 2022**  **CS601: Data Communication** | | **Total Marks: 20**  **Due Date:09-June-2022** |
| **Instructions:**  Please read the following instructions carefully before submitting assignment:  You need to use MS word document to prepare and submit the assignment on VU-LMS.  It should be clear that your assignment will not get any credit if:   * The assignment is submitted after due date. * The assignment is not in the required format (doc or docx). * The submitted assignment does not open or file is corrupt. * Assignment is copied (partial or full) from any source (websites, forums, students, etc).   **Objectives:**  To enhance the learning capabilities of the students about:   * TCP/IP Protocol Suite * Types of Computer Networks | | | |
| **Assignment Solution** | |  | |

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| **Question No. 1 Total Marks: 10** There are 3 distinct types of Wide Area Network i.e. Point-to-Point WAN, Switched WAN and Internetwork while there are 2 basic types of switching i.e circuit switched networks and packet switched network.  Considering the above statements, answer the following questions:   |  | | --- | | **Question(i):** Which type of network is used in Asynchronous Transfer Mode (ATM)? | | **Your Answer:** packet switched network | | **Question (ii):** Identify the type of network used in dial-up line? | | **Your Answer:** circuit switched networks | | **Question (iii):** Which type of network uses the concept of Queue to transfer data efficiently? | | **Your Answer:** packet switched network | | **Question (iv):** Which type of the network is used in the old Telephone exchange system? | | **Your Answer:** circuit switched networks | | **Question (v):** Identify the type of the network is used in the modern form of telephone system? | | **Your Answer:** packet switched network |   **Question No. 2 Total Marks: 10**  Following table contains different layers of TCP/IP Protocol Suite in column A. In Column B, Functionalities of TCP/IP protocol suite are given. You are required to identify the corresponding **Functionality** of each stage and write the correct answer **(relevant Functionality)** in Column C against its associated stage of TCP/IP Protocol suite.   |  |  |  | | --- | --- | --- | | **Column A** | **Column B** | **Column C** | | Network layer | Bits | Logical Addresses | | Physical Layer | Port Numbers | Bits | | Application Layer | Link-layer addresses | Abstraction Layer | | Data link layer | Logical addresses | Link-layer address | | Transport Layer | Abstraction layer | Port Numbers |     **Best of Luck !** |  |
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