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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
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| **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:

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| **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.

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| **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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