**DCA2201 Computer Networking**

**Assignment Set – I**

1. Explain the TCP/IP protocol suite and how it aligns with the TCP/IP model. Outline the four layers of the TCP/IP model—Network Interface, Internet, Transport, and Application layers—detailing each layer's function in data transmission across networks. Compare the TCP/IP model to the OSI model, noting both their similarities and differences.

2. Describe the concept of sliding window protocols in computer networking. Compare the two primary types of sliding window protocols: Stop-and-Wait and Go-Back-N, highlighting their key similarities and differences.

3. Describe the detailed structure of an IPv4 address, and discuss the significance and purpose of different Internet address classes. Also compare IPv4 and IPv6.

**Assignment Set – II**

4. What is Routing? Explain the significance of routing algorithms. Explain any two routing algorithms in detail.

5. Discuss various email protocols.

6. Describe the role and importance of the Domain Name System (DNS) in computer networking. Additionally, distinguish between static and dynamic web pages.

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