NANYANG POLYTECHNIC

Tutorial 11 - Transport & Application Layer

1. You are developing an application that uses both Transmission Control Protocol (TCP) and User Datagram Protocol (UDP), two different types of transport layer protocols.

    (a) Describe the characteristics for TCP and UDP each respectively that will make them a possible choice for your application.

    (b) Using a fully labelled diagram, describe how the TCP 3-way handshake is performed before a connection is established. Indicate clearly the states.

2. What is the function of each of the OSI layers in TCP/IP Application Layer?

3. What is a peer-to-peer application? What are some examples of peer-to-peer applications?

4. List and Describe the 3 Application Layer protocols used in the email system?

5. What is DHCP and how does it work?