**AICT003-4-2-NWN: Networks and Networking**

**Tutorial Activity 4: OSI Model & TCP/IP Model**

**Instructions:**

Answer these questions

1. Why protocols are important in data transmission? Briefly explain any 2 examples of protocols that you know and relate them with the 4 layers of TCP/IP protocol suite.

So that there’ll will be rules and regulations on how to use the Internet and networks. It ensures the integrity of the packages.

1. Briefly explain the process of sending and receiving data using OSI model as reference.
2. Explain the function of Application and Presentation layer. Give 2 examples of Application Layer protocol.
3. Explain the function of Session layer in OSI Model
4. Briefly explain these terms:
   * Unicast
   * Multicast
   * Broadcast
5. Compare and contrast the 2 transport layer protocols – TCP and UDP
6. What is encapsulation? Explain the Protocol Data Unit (PDU) changes in each layer during encapsulation and de-encapsulation process.
7. Briefly explain the function of Default Gateway (DGW).