

**KOLEJ UNIVERSITI POLY-TECH MARA KUALA LUMPUR**

**DIPLOMA IN COMPUTER SCIENCE (CC101)**

*TNW2033: Data Communications Concept*

**TUTORIAL 2A**

**CHAPTER 2 : TRANSMISSION MEDIA**

1. Name the two major categories of transmission media.
2. How do guided media differ from unguided media?
3. What are the three major classes of guided media?
4. What is the major advantage of shielded twisted pair over unshielded twisted pair?
5. Why is coaxial cable superior to twisted-pair cable?
6. What is the purpose of cladding in an optical fiber? Discuss its density relative to the core.
7. Name the advantages of optical fiber over twisted-pair and coaxial cable.
8. Describe the components of a fiber-optic cable. Draw a picture.
9. Describe the layers of the atmosphere. What types of radio communication utilize each?
10. How does ionospheric propagation work? What are the uses for this type of propagation?