***Networking Fundamentals***

**Tutorial 2**

1) For successful communication, how many listeners and talkers are allowed?

2) How does the Ethernet standard cope with multiple talkers?

3) Explain the operation of the 3 modes of communication

4) What copper cable types are needed to cope with a data transfer rate of 1 Gbps?

5) What does UTP and STP mean with copper media?

6) Name 3 problems that can interfere with data transfer in copper media

7) When would a crossover cable be needed in a network?

8) How may conductors are in a normal UTP cat 5e cable and how many are used?

9) What are the 2 main types of fibre optic cables available?

10) What are the causes of attenuation in copper media and glass media?

11) What fibre optic cable can transmit the longest distance?

12) Name 2 advantages and 2 disadvantages of using fibre optic cables?

13) How is data transmitted in a wireless network?

14) State the standard for all wireless networks

15) State the standard for Bluetooth networks

16) What is the biggest problem with satellite communications?