***Networking Fundamentals***

**Tutorial 3**

1) What is meant by the term network topology?

2) List 2 factors that would need to be considered when choosing any particular network topology

3) Sketch a diagram for each of the following topologies and list 2 advantages and 2 disadvantages for each of these:

* Bus
* Star
* Ring
* Mesh

4) What is the meaning of the term “Hybrid Topology”?

5) What are the 4 characteristics of any network?

6) Which of the characteristics refers to the ease of expansion?

7) Which of the network topologies are fault tolerant to one computer going down?

8) When is Security an issue with computer topologies?

9) What is QoS as related to computer networks?

10) When is QoS used in computer networks?

11) What is UDP?

12) What is TCP/IP?

13) Explain why TCP/IP is more reliable than UDP for communication