**Information Technology Unit 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Test – Networks**

What do the following terms mean in networking? How are they defined?

|  |
| --- |
| LAN:  |
|  |
| WAN: |
|  |
| Peer-to-peer: |
|  |
| Client-server: |
|  |

What are five advantages of using a network over standalone computers?

|  |
| --- |
| 1. |
| 2. |
| 3. |
| 4. |
| 5. |

What are two disadvantages of using a network?

|  |
| --- |
| 1. |
| 2. |

What are four tasks of a network operating system?

|  |
| --- |
| 1. |
| 2. |
| 3. |
| 4. |

List five different types of transmission media. At least two must be physical and at least two must be wireless:

|  |
| --- |
| 1. |
| 2. |
| 3. |
| 4. |
| 5. |

In regards to Ethernet, explain what the following terms mean:

|  |
| --- |
| Carrier Sense: |
|  |
| Multiple Access: |
|  |
| Collision Detection: |
|  |

List and describe four threats to network security.

|  |
| --- |
| 1. |
|  |
| 2. |
|  |
| 3. |
|  |
| 4. |
|  |

Explain the function of a firewall in a network.

|  |
| --- |
|  |
|  |
|  |
|  |

For each of the following protocols, state their full name and what they are used for:

|  |  |  |
| --- | --- | --- |
| Protocol | Full name | Used for |
| TCP/IP |  |  |
| FTP |  |  |
| HTTP |  |  |
| WAP |  |  |
| SMTP/POP/IMAP |  |  |

In the network diagram below, identify the items labelled A through to E.

D:

B:



C:

E:

A:

Mark: /40

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0-10 | 11,12 | 13,14 | 15,16 | 17-19 | 20-22 | 23-25 | 26-28 | 29-31 | 32-35 | 36-40 |
| UG | E | E+ | D | D+ | C | C+ | B | B+ | A | A+ |