

Name:.....PTES 9618 Computer Science Worksheet

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4

- 4 Complete the following paragraph about a **protocol suite**, using words from the given list.

Some words are **not** used.

|              |                   |         |      |        |
|--------------|-------------------|---------|------|--------|
| BitTorrent   | circuit switching | layered | link | list   |
| peer-to-peer | queue             | stack   | star | TCP/IP |

The protocols in a ..... determine the interconnectivity rules for a ..... network model such as the ..... model.

[3]

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- 3 (a) Describe circuit switching as a method of data transmission.

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[3]

- (b) State **one** benefit and **one** drawback of circuit switching as a method of data transmission.

Benefit .....

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Drawback .....

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[2]

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- 4 (a) Identify **one** benefit of circuit switching **and one** benefit of packet switching.

Circuit switching .....

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Packet switching .....

..... [2]

- (b) Identify **two** differences between circuit switching and packet switching.

1 .....

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2 .....

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..... [2]

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- 5 (a) State, with a reason, where it would be appropriate to use circuit switching.

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..... [2]

- (b) Give **two** benefits and **two** drawbacks of circuit switching.

Benefit 1 .....

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Benefit 2 .....

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Drawback 1 .....

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Drawback 2 .....

..... [4]

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- 1 (a) Describe how packet switching is used to transmit messages across a network.

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..... [3]

- (b) State **two** benefits and **two** drawbacks of packet switching as a method of transmitting messages across a network.

Benefit 1 .....

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Benefit 2 .....

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Drawback 1 .....

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Drawback 2 .....

..... [4]

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- 6 Give **two** benefits and **two** drawbacks of packet switching.

Benefit 1 .....

.....

Benefit 2 .....

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Drawback 1 .....

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Drawback 2 .....

..... [4]

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- 6 (a) Explain how packet switching is used to transfer messages across the internet.

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..... [5]

- (b) Outline the function of a router in packet switching.

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..... [3]

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- (b) Describe the function of a router in packet switching.

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