

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

Benefit 1

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Benefit 2

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Drawback 1

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Drawback 2

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[4]

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

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

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3 Data can be sent over networks using either circuit switching or packet switching.

Describe both methods of data transmission. Include a different advantage and disadvantage for each method.

Circuit switching

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Advantage

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Disadvantage

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Packet switching

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Advantage

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Disadvantage

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2 Outline the functions of the Transport and Internet layers of the TCP/IP protocol suite.

Transport layer
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Internet layer
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[5]