

**Chapter 4 questions:**

- 1 Give **two** advantages and **two** disadvantages of having computers networked.

Advantage 1 .....

.....

Advantage 2 .....

.....

Disadvantage 1 .....

.....

Disadvantage 2 .....

..... [4]

- 2 A large company has a LAN. The manager of the company wants to replace it with a WLAN. Explain the differences between a LAN and a WLAN, giving an advantage and a disadvantage of a WLAN.

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..... [4]

3 A desktop computer is already used in an office which does not have an internet connection.

(a) Name **two** items of hardware which could enable the computer to be connected to a network.

1 .....

2 ..... [2]

(b) Name **one** item of hardware which would enable the network to be connected to the internet.

..... [1]

4 Aftab and his family have three computers in their home. He wants to connect the computers into a network. Explain why he would need:

A router .....

A browser .....

Email .....

An ISP .....

..... [4]



7 Explain why switches are more intelligent devices than hubs.

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..... [3]

8 Tick **Internet** or **intranet**, next to each statement, as appropriate.

	Internet	intranet
is a network of computer networks		
exists usually within one organisation		
anybody can access it		
can be expanded to become an extranet		

[4]

9 Explain what is meant by the following terms.

Website .....

.....

Webserver .....

.....

Web browser .....

..... [3]

**10- A router is used in networks.**

Describe how a router routes data packets.

**11- 1 For each of the different statements, tick the most appropriate network.**

	WAN	WLAN	LAN
A cabled network used in one building.			
The internet is an example of this type of network.			
Several networks connected together using a router.			
This network is connected without cables.			

**12- (a) Describe two similarities between physical faxing and electronic faxing.****(b) Describe three differences between physical faxing and electronic faxing.**

**13- Describe how data is sent from a networked computer to a computer on a different network.**

**14- Use examples to describe the difference between a weak password and a strong password.**

**15- A media company with branches around the world has recently opened a new branch in London.**

The branch includes a number of different computer networks. Identify the most appropriate type of network to answer each of the questions.

**(a)** The type of network used to connect the branch to its head office in New York is called a

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**(b)** The type of cabled network used to connect computers together in one of the offices is called a

.....

**16- A new employee of a company is required to log on to the company's computer system and will need to create a suitable password.**

**(a)** Give **three** rules that the company would have in place, to help the employee choose a password.

**(b)** He changes his password to R4hB5&Fg1  
Explain why he has chosen this password.

**(c)** When a password is changed it is verified.  
Identify the type of verification which is carried out.

**17- Complete each sentence below using the most appropriate item from the list.**

**a bridge**  
**a printer**

**a hub**  
**a router**

**a keyboard**  
**a scanner**

**a microphone**  
**a sensor**

**a mouse**  
**a switch**

**(a)** A network device which broadcasts data passing through it is called  
.....

**(b)** A network device that connects a LAN with the internet is called  
.....

**(c)** A network device that connects a LAN to another LAN using the same protocol is called  
.....

**(d)** A network device that learns which devices are connected to which ports is called  
.....

**18- List four other principles of a typical data protection act.**

**19- Describe the details of computer addresses that are stored by a router.**



**20- A school's Science department has a network which uses WiFi. A teacher has a laptop computer and whilst in school wishes to connect to this network.**

**(a)** Write down the name of this type of network.

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**(b)** In order to access the network the laptop must be within range of a type of WiFi network device.

**(i)** Write down the name of this type of device.

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**(ii)** Describe how this device is connected to the network using an ethernet cable.

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**(c)** WiFi networks can be limited in their range.

Describe **one** other disadvantage of a WiFi network compared to a cabled network.

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 .....  
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**21- Tick whether the following statements are true or false.**

	True	False
A WAN usually connects a number of LANs.		
A LAN is usually found in one building.		
A WAN is a Wireless Area Network.		
The internet is an example of a WLAN.		