2 w18 13

1 Tick the most appropriate device matching the statements.

	Hub (✓)	Switch (✓)	Router (✓)
Connects a LAN to a WAN.			
Broadcasts data to all connected devices.			
Connects two LANs.			
Selects which device to send data to.			

[4]

13 w19 13

2 Explain the following terms.

(a) HTTPS .....

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..... [2]

(b) URL .....

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..... [2]

6 w19 12

3 The computer technician at VAS is planning to set up ten new computers to be placed in the staffroom to form a network. The network will not be connected to the internet. Assume the school currently has no hardware or software for this network.

(a) State the steps that the technician would need to take to set up this network.

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..... [4]

(b) The teachers have asked the head teacher if they can access the internet. The computer technician will need to attach a router to the network.

Explain how a router works.

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..... [3]

(c) The school plans to connect some teachers' laptops to this new network using WiFi.

Describe, in detail, how data is transmitted from the laptops to the new network.

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..... [4]

4 m20 12

4 Tick (✓) whether the following statements refer to the **internet** or an **intranet.**

	internet (✓)	**intranet (✓)**
This type of network is public		
This is the more secure type of network		
This type of network is global		
This type of network is more likely to be monitored		

[2]

14 w19 13

5 One example of wireless communication is Bluetooth.

Describe how computers can use Bluetooth to connect to a device.

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..... [4]

12 w19 13

6 Policing the internet has been discussed for many years.

Describe **three** reasons why the internet has not yet been policed.

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..... [6]

10 s20 13

7 The modern home relies heavily on microprocessor-controlled devices. One of the benefits is that a worker is able to return home to a warm house having set the heater control to switch on at a certain time.

(a) Describe **four** benefits in terms of lifestyle changes that this has produced for the users of such devices.

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2.....

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4.....

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[4]

13 s18 13

8 An organisation is planning to train all staff online rather than by video-conference.

Explain the differences between video- and web-conferencing.

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..... [3]

14 s18 13

9 Continuous use of computers can lead to a number of health issues.

In the table there are some recommended ways to minimise specific health issues. For each way, identify the most appropriate health issue it is trying to minimise.

Identified health issues must be different in each case.

Ways of minimising the health issue	**Health issue**
Use ergonomic keyboards.	
Use fully adjustable chairs to give correct posture.	
Change to LCD screens from CRT screens.	
Have the monitor at the correct height.	

[4]

2 w19 11

9 The introduction of computers into the workplace has had an effect on working patterns.

Name the most appropriate working pattern that matches the descriptions given below.

(a) Working fewer hours a week than full-time staff.

..... [1]

(b) Workers have some say in when they start and finish work but must work a full day.

..... [1]

(c) One full-time job is divided between two workers.

..... [1]

(d) A worker works the required hours but in a fewer number of days.

..... [1]

2 s20 12

10 **(a)** Describe repetitive strain injury (RSI) and explain what causes it.

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..... [2]

(b) Give **three** ways of minimising the risk of RSI.

1.....

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2.....

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3.....

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[3]