MODULE F THE INTERNET · F1

The Internet: a worldwide collection of networks

Original practice questions · 20 marks · ~25 minutes · OCR J277 spec 1.3.1 (with 1.3.2 protocols)

Name _____ Date _____

Instructions. Answer all questions in the spaces provided. The marks for each part are shown in brackets [ ]. The total for this worksheet is **20 marks**.

1

Total: 3 marks

(a) Tick (✓) **one** box to show which statement describes the Internet. **[1]**

Statement	Tick (✓)
A single network that is owned by one company	
A worldwide collection of computer networks	
A network that covers one building or one site	
A program that is used to display web pages	

(b) The Internet is often described as "a network of networks". **[2]**
State what this means.

2 **Total: 5 marks**

Complete the paragraph about the Internet. Use words from the list. Not all words are used. **[5]**

LAN · local · NIC · protocols · router · switch · transmission · WAN · websites · worldwide

The Internet is a ..... collection of computer networks. An organisation's ..... in one building is connected to the Internet using a ..... . Data travels between networks through ..... media, such as fibre-optic cables. Devices on different networks can communicate with each other because they all follow the same ..... , such as TCP/IP.

3 **Total: 4 marks**

Tick (✓) **one** box in each row to show whether each statement is true or false. **[4]**

Statement	True	False
The Internet is a type of LAN.		
Data sent across the Internet may pass through several routers on its way to its destination.		
A client can only request a web page from a web server that is in the same building as the client.		
Data sent across the Internet can travel through both wired and wireless transmission media.		

4 **Total: 2 marks**

A furniture business has a workshop in one town and a showroom in another town 80 km away. Each site has its own LAN. Both LANs are connected to the Internet.

(a) Staff at the business use the Internet to view web pages. **[2]**
Give **two other** services the business could use over the Internet.

1

2

5 **Total: 6 marks**

This question is about the furniture business in Question 4.

(a) A designer in the workshop sends a large design file to a computer in the showroom. Explain how the Internet allows the file to reach the computer in the showroom. **[4]**

(b) One day the showroom's connection to the Internet stops working. Staff in the showroom cannot send files to the workshop. They can still print from the showroom computers to the printer in the showroom.
Explain why they can still print. **[2]**

Total for this worksheet: 20 marks