MODULE E NETWORKS · E6

Wired vs wireless: Ethernet, Wi-Fi and Bluetooth

Original practice questions · 20 marks · ~25 minutes · OCR J277 spec 1.3.2

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: 4 marks

(a) Tick (✓) **one** box in each row to show whether each mode of connection is wired or wireless. **[3]**

Mode of connection	Wired	Wireless
Bluetooth		
Ethernet		
Wi-Fi		

(b) A delivery driver connects a pair of wireless headphones to their phone using Bluetooth. Give **one** reason why Bluetooth is suitable for this connection. **[1]**

2

Total: 3 marks

(a) Tick (✓) **one** box in each row to show whether each statement is true or false. **[3]**

Statement	True	False
Walls can weaken a Wi-Fi signal		
A wired connection lets a device be moved freely around a building while it stays connected		
Bluetooth is designed to connect devices that are a long way apart		

3 **Total: 6 marks**

A large garden centre has an office with four desktop computers that never move. Staff on the shop floor and in the greenhouses use tablet computers to check stock. The office computers use Ethernet. The tablets use Wi-Fi.

(a) Explain **two** benefits to the garden centre of using Wi-Fi for the tablets. **[4]**

1

2

(b) Explain **one** drawback of using Wi-Fi for the tablets. **[2]**

4 **Total: 3 marks**

Describe **three** benefits to the garden centre of using wired (Ethernet) connections for the office computers, instead of Wi-Fi. **[3]**

1

2

3

5 **Total: 4 marks**

For each situation, recommend **one** mode of connection (Ethernet, Wi-Fi or Bluetooth) and justify your choice.

(a) A hotel wants guests to be able to get their phones online in any of its rooms. **[2]**

Connection

Justification

(b) A video production company keeps a file server in a fixed rack. Very large video files are copied to and from it all day. **[2]**

Connection

Justification

Total for this worksheet: 20 marks