MODULE E NETWORKS · E3

Client-server vs peer-to-peer networks

Original practice questions · 20 marks · ~25 minutes · OCR J277 spec 1.3.1

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 statement describes a client-server network or a peer-to-peer network. **[4]**

Statement	Client-server	Peer-to-peer
All computers have equal status		
User accounts and security are managed centrally		
Each computer can act as both a client and a server		
If one central computer fails, the other computers lose access to the shared files		

2

Total: 4 marks

A hotel chain runs a client-server network. Its servers include a web server and a file server.

(a) State the service provided by each server. **[2]**

Web server

File server

(b) Describe the role of a **client** in a client-server network. **[2]**

3 Total: 3 marks

(a) Describe what is meant by a **peer-to-peer** network. **[3]**

4 Total: 3 marks

A two-person furniture repair workshop has four computers connected in a peer-to-peer network. Each computer stores some of the workshop's files, and the other computers can open them.

(a) Give **one** reason why a peer-to-peer network is suitable for this workshop. **[1]**

(b) One computer is switched off at the end of the day. A worker on another computer then tries to open a file. Explain why the worker might not be able to open the file. **[2]**

5 **Total: 6 marks**

An accountancy firm has grown to 60 staff. Its computers are connected in a peer-to-peer network. The firm is thinking about changing to a client-server network.

(a) Explain **two** advantages to the firm of changing to a client-server network. **[4]**

1

2

(b) Explain **one** disadvantage to the firm of changing to a client-server network. **[2]**

Total for this worksheet: 20 marks