

and the Internet

CHAPTER 9:

Networks

PASTPAPERS

N.B. These pastpapers may rely on the knowledge gained from the previous chapters.

1 SEC '94-PAPER 1-Q10

Explain the terms:

WAN _____ [1]

LAN _____ [1]

A company has a number of offices in one large building. All computers in the various offices are connected via a LAN. Identify and briefly explain THREE advantages of using a LAN rather than having standalone PCs in each office.

1. _____ [2]

2. _____ [2]

3. _____ [2]

9 SEC '01-PAPER 1-Q1 (CONSULT CH 3)

What is each of the following called?

- (i) A software program used to view information on the World Wide Web [1]

- (ii) A computer program used to model a real life situation [1]

- (iii) A program designed to damage or alter data in computer systems [1]

- (iv) The illegal copying and distribution of data [1]

- (v) A technique to prevent data from being read and understood by unauthorised users. [1]

10 SEC '01-PAPER 1-Q13

This question is related to networking

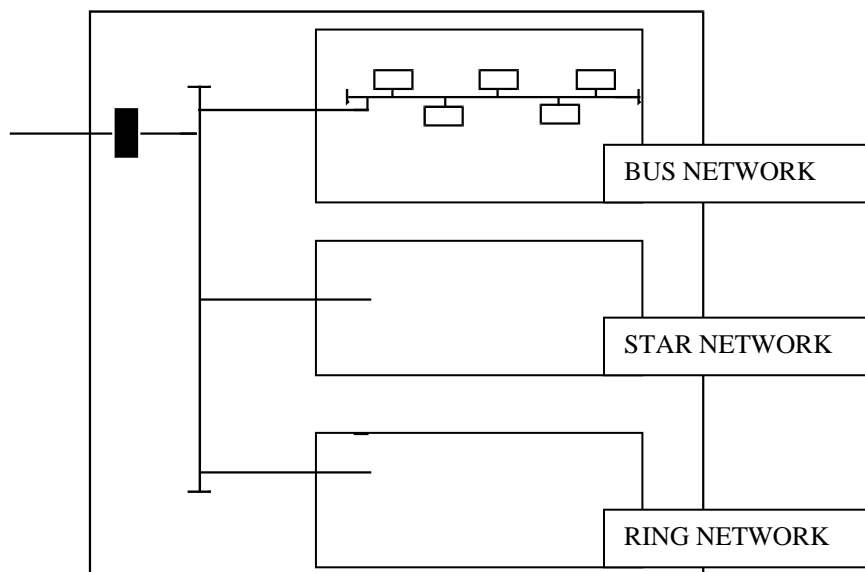
Data may be transferred from one computer to another by using a floppy disk, a LAN or a modem. Assume all THREE methods are available to you. For EACH method, give a clear example demonstrating the circumstances under which it would be the method chosen.

Using a floppy disk: _____ [2]

Using a LAN: _____ [2]

Using a modem: _____ [2]

The diagram below shows three local area networks within the same building. The local area networks have been combined to form a larger network. In the diagram the Bus network with five nodes has been drawn. Draw Ring and Star networks in the appropriately labeled boxes in the diagram. Include five nodes in each network. [2]



12 SEC '02-PAPER 1-Q5

Write on the booklet provided the appropriate word that fits the blanks in the passage corresponding to the number in the blank space. Each word may be used once, twice or not at all.

- Viruses email scan search engine modem
URL address scanner Explorer password
dial-up username browser Internet service provider

To access the Internet from home a user would require a personal computer, a telephone line and a ...*(i)*... to convert digital signals into analogue signals. The user should also have an account with an ...*(ii)*... to connect his computer to the global network. When he attempts to connect using his ...*(iii)*... program he is asked to input his ...*(iv)*... and ...*(v)*... Once connected the user would open his ...*(vi)*... to type in a ...*(vii)*... and view information available on a website. While on line the user may use a ...*(viii)*... to look for particular websites. The user may also decide to download some software onto his PC. Once downloaded he would ...*(ix)*... the programs for any ...*(x)*... before running them.

- i. _____
- ii. _____
- iii. _____
- iv. _____
- v. _____
- vi. _____
- vii. _____
- viii. _____
- ix. _____
- x. _____

Explain the following terms:

a. Internet **[2]**

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.....

b. Videoconferencing **[2]**

.....
.....

c. E-commerce **[2]**

.....
.....

16 SEC '03-PAPER 1 Q12 (CONSULT CH 4)

State ONE similarity and ONE difference between each of the following pairs:

a. CD and DVD [2]

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.....

b. Touch screen and touch pad [2]

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.....

c. LAN and WAN [2]

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.....

d. File server and printer server [2]

.....
.....

7. Computer hardware can be linked up to form networks.

a. Give **TWO** advantages a network has over stand-alone computers. [2]

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.....

b. LAN and WAN are two different types of networks.

i. What does LAN stand for?

[1]

.....

ii. Give the main difference between a LAN and a WAN.

[2]

.....
.....

c. Telephone lines are one of the communication media used to transfer data on a network. Identify another **THREE** types of media used to send data across a network. [3]

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.....
.....

d. Name **ONE** additional item of hardware that is required to connect a computer to a network. [1]

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9. The Internet provides very useful services.

a. Give **THREE** potential hazards when using the services provided on the Internet. [3]

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.....
.....

b. What is the purpose of a search engine? [2]

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.....

c. Email is available on the Internet and private networks. What is email? [2]

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.....

d. Give **ONE** disadvantage, other than the cost of buying a computer, of using email services. [1]

.....

The following acronyms are related to Internet applications. State what each acronym stands for and briefly explain its use in Internet applications.

(i) URL:

.....

[2]

(ii) WWW:

.....

[2]

(iii) IRC:

.....

[2]

(iv) HTTP:

.....

[2]

In a given school, all the school's computers are networked to form the school intranet.

- (a) Mention TWO advantages of having the school computers networked rather than having standalone computers

Advantage 1: _____

Advantage 2: _____ [2]

- (b) Mention ONE disadvantage of having the school computers networked rather than having standalone computers

Disadvantage 1: _____ [1]

- (c) Mention TWO ways in which the school staff (administrators and teachers) might use the school intranet in the course of their work:

Use1: _____

Use2: _____ [2]

23 SEC '07-PAPER 1 Q3 (CONSULT CH 2)

Write down what each acronym stands for and what it refers to:

CPU _____ [2]

ROM _____ [2]

LAN _____ [2]

HTML _____ [2]

An email program provides facilities to send and receive messages.

- a) What does the 'e' in the term email stands for?

_____ [1]

- b) Name *three* facilities which are typically provided by an email program.

_____ [3]

- c) State *one* advantage and *one* disadvantage of using email compared to the postal system.

_____ [2]