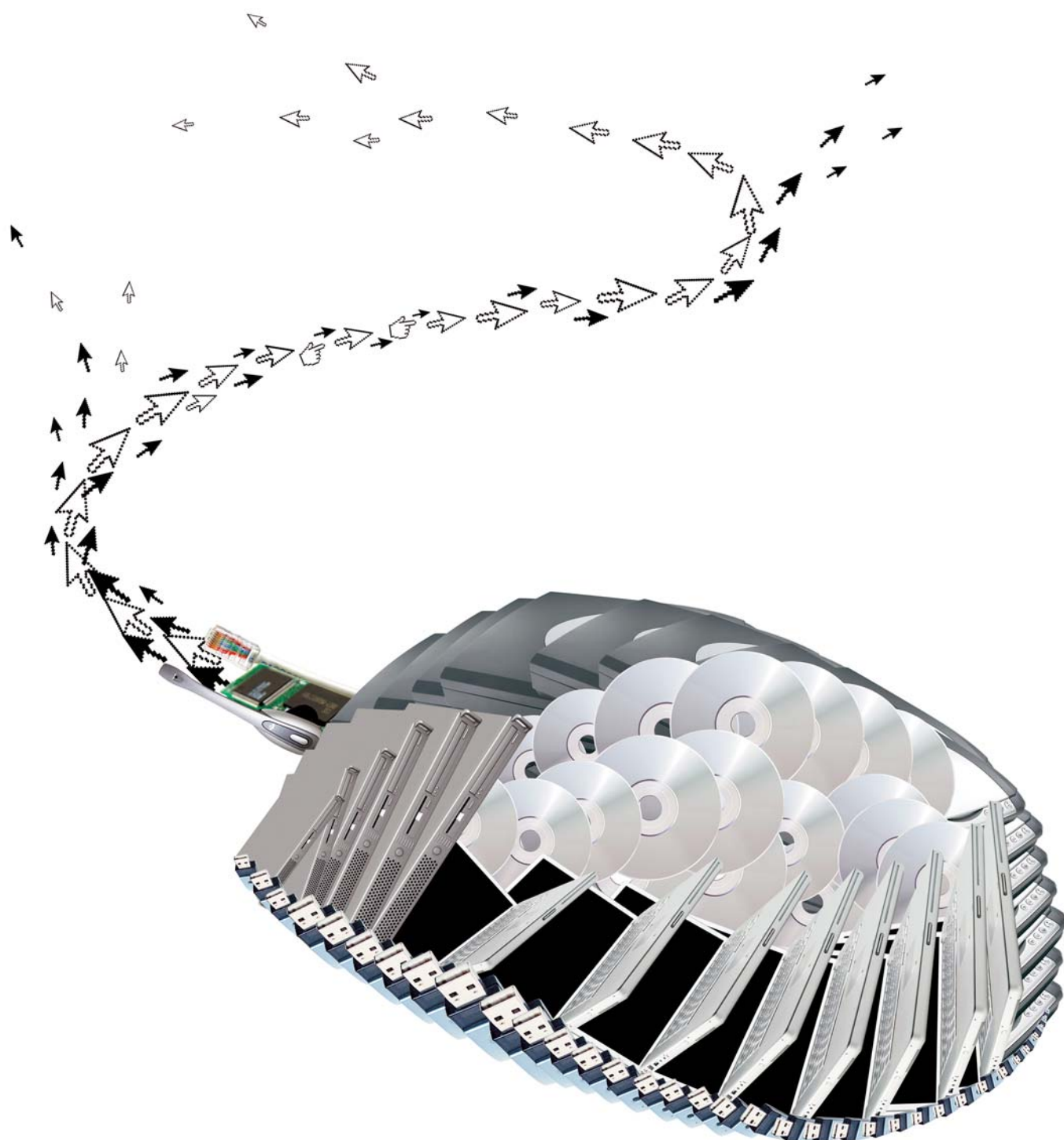


SPECIMEN PAPER

UNIT 3 - WORKING WITH TECHNOLOGY



| | | | | | | | | | | |
|---------------------|--|--|--|--|--|------------------|--|--|--|--|
| Centre Number | | | | | | Candidate Number | | | | |
| Surname | | | | | | | | | | |
| Other Names | | | | | | | | | | |
| Candidate Signature | | | | | | | | | | |

| | |
|---------------------|------|
| For Examiner's Use | |
| Examiner's Initials | |
| Question | Mark |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| TOTAL | |



Level 1 Diploma Principal Learning
Specimen Paper

Information Technology

IN1U3W

Unit 3 Working with technology

Date Time

You will need no other materials.

Time allowed

- 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Read **all** the questions carefully first before beginning the examination.
- Answer **all** the questions.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 48.
- The marks for questions are shown in brackets.
- The use of brand names in your answers will not gain credit.
- You are reminded of the need for good English and clear presentation in your answers.



IN1U3W

Answer **all** questions in the spaces provided.

Background information

A group of 17 year olds have been playing music in their local area. They are starting to develop a fan base and have become a 'band' called Purple Spiders.

They have set up a recording studio in one of their bedrooms. They want a computer system which is able to handle all of their music files, as well as produce the publicity materials for the band. The computer system must allow them to:

- record their music
- create advertising materials
- upload their music onto the web
- burn their music onto a CD/DVD
- record their own music videos
- track the dates of their gigs
- keep a record of what money they make from CD/DVD sales and gigs.

1 You have been asked to recommend the hardware and software required for the band's computer.

1 (a) Tick **six essential** hardware devices that the band will need to buy.

| | |
|----------------------------|--|
| USB pen drive | |
| Good quality sound card | |
| Speakers | |
| Scanner | |
| Microphone | |
| Video camera | |
| Printer | |
| MP3 player | |
| DVD/CD writer | |
| Good quality graphics card | |

(3 marks)

1 (b) Purple Spiders need to burn enough CDs to sell. At the moment they don't need many CDs.

1 (b) (i) What device would you recommend they use for printing their graphics directly onto a **small number** of CDs?

| | Tick 1 |
|--------------------------------|--------|
| Laser printer on to CD labels | |
| Manual inkjet CD/DVD printer | |
| Inkjet printer on to CD labels | |
| Thermal inkjet CD/DVD printer | |
| Dot matrix printer | |

(1 mark)

1 (b) (ii) Explain why your choice is suitable.

.....

.....

(1 mark)

1 (c) As they become more popular, they need more CDs.

1 (c) (i) What would be a suitable device for printing graphics onto a **large number** of CDs?

| | Tick 1 |
|--------------------------------|--------|
| Laser printer on to CD labels | |
| Manual inkjet CD/DVD printer | |
| Inkjet printer on to CD labels | |
| Thermal inkjet CD/DVD printer | |
| Dot matrix printer | |

(1 mark)

1 (c) (ii) Explain why your choice is suitable.

.....

.....

(1 mark)

1 (d) Complete each sentence below using one item from the list:

- | | | |
|--------------------------|-----------------------------|-------------------------|
| Database software | Desktop publishing software | Image editing software |
| Video editing software | Music editing software | DVD/CD burning software |
| Word processing software | Web editing software | Spreadsheet software |

1 (d) (i) Purple Spiders will use to write their CDs.

1 (d) (ii) Purple Spiders designed the artwork for their CD sleeve using

1 (d) (iii) The flyer was made using

1 (d) (iv) was used to keep a record of the amount of money made.

(2 marks)

1 (e) At the moment, Purple Spiders keep a record of when their gigs are on paper. They want to computerise this.

1 (e) (i) What type of software would you recommend?

.....

(1 mark)

1 (e) (ii) Give **two** reasons why you have made this recommendation.

Reason 1

.....

Reason 2

.....

(2 marks)

2 Purple Spiders have now bought the necessary hardware and software for their system. They now need to set up the system to allow individual user accounts in Microsoft Windows® for the band members.

2 (a) Number the following steps in the most appropriate order, 1 to 5, to set up an individual user account.

| | Number |
|--------------------------------------|--------|
| Provide a username | |
| Go to User Accounts in Control Panel | |
| Create a new user | |
| Provide a password | |
| Set the type of account | |

(5 marks)

2 (b) Give **one** reason why it is better to have individual user accounts.

.....
(1 mark)

2 (c) Purple Spiders have a lot of large music files written to their computer's hard disc. This slows the computer down.

What maintenance utility should be used regularly in order to keep the computer working more quickly?

.....
(1 mark)

2 (d) What **two** steps need to be taken so that the computer automatically runs this utility once a week?

.....
.....
(2 marks)

Turn over for the next question

2 (e) Purple Spiders need to back up their music.

2 (e) (i) Name a storage medium which they could use.

.....
(1 mark)

2 (e) (ii) State **two** reasons why this medium is suitable for backing up their music.

Reason 1

.....

Reason 2

.....
(2 marks)

3 Purple Spiders use a social networking site to advertise themselves to a wider audience.

3 (a) (i) What type of Internet connection would be most suitable for the band to upload their music and video files to their site?

.....
(1 mark)

3 (a) (ii) Explain your choice.

.....

.....

(2 marks)

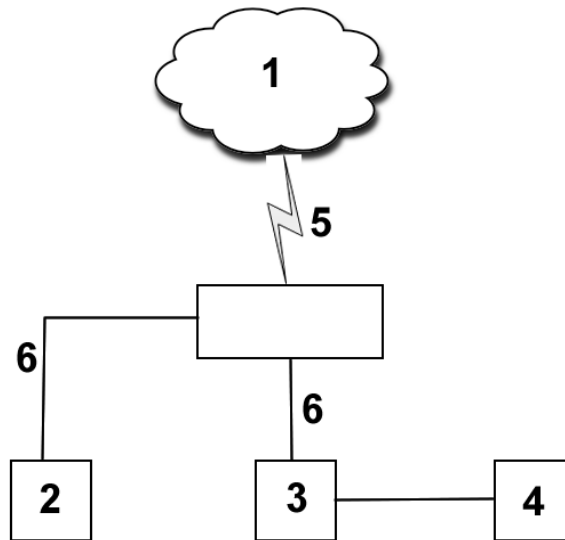
3 (b) The band buys another computer. Both computers need to access the Internet and each others' files. The band's Internet Service Provider (ISP) has provided them with a piece of hardware that allows them to connect both computers to each other and to the Internet.

What is the hardware that the ISP has given them?

.....
(1 mark)

- 3 (c) Look at the diagram below and write the correct number next to the name of the item.

(3 marks)



Internet
Printer
Ethernet cable
Computer one
Telephone cable
Computer two

| |
|--|
| |
| |
| |
| |
| |
| |

- 3 (d) Before they can connect to the Internet, what pieces of information will the band need to enter? Choose **one** from the list:

| | Tick |
|---------------------------|------|
| ISP name and address | |
| The band URL | |
| ISP username and password | |

(1 mark)

- 3 (e) (i) The band has decided to put the computers in different rooms, but they do not want lots of cables lying around.

What type of networking could they use to avoid using cables?

.....
(1 mark)

- 3 (e) (ii) Explain **one** disadvantage of setting up this type of network.

.....
.....
(1 mark)

- 3 (f) Before they can use this type of networking they must make sure that the ISP-provided hardware supports it.

Where can they look to find out if the ISP-provided hardware supports the networking method you have suggested in question 3(e) above?

.....
(1 mark)

- 3 (g) The band has found that the ISP hardware does support what they want to do.

Which of the following pieces of hardware will the band need to install in the computer to make it work in its new location? Tick **one** answer.

| | Tick |
|----------------------------|------|
| A wireless networking card | |
| A modem | |
| A USB hub | |
| A router | |

(1 mark)

4 Purple Spiders are worried that someone could gain access to their music files and alter them. They are also concerned that people could hack into their computer via the Internet.

4 (a) Recommend **two** ways in which Purple Spiders could protect their files.

Recommendation 1

.....

Recommendation 2

.....

(2 marks)

4 (b) Explain how each way you have given in question 4(a) will help Purple Spiders protect their files.

1

.....

2

.....

(4 marks)

4 (c) One of the computers got infected with a Trojan.

What is a Trojan?

.....

(1 mark)

4 (d) Describe **two** ways that this could have got onto their computer.

1

.....

2

.....

(4 marks)

- 4 (e) Purple Spiders have purchased and installed some software to stop them getting any more Trojans, or similar types of infections.

What must they do regularly with the software to make sure that they don't get any new infections? Tick the **most** suitable choice:

| | Tick |
|---|--------------------------|
| Install the software | <input type="checkbox"/> |
| Configure the software | <input type="checkbox"/> |
| Run the software regularly with new updates | <input type="checkbox"/> |
| Use the software sometimes | <input type="checkbox"/> |

(1 mark)

END OF QUESTIONS