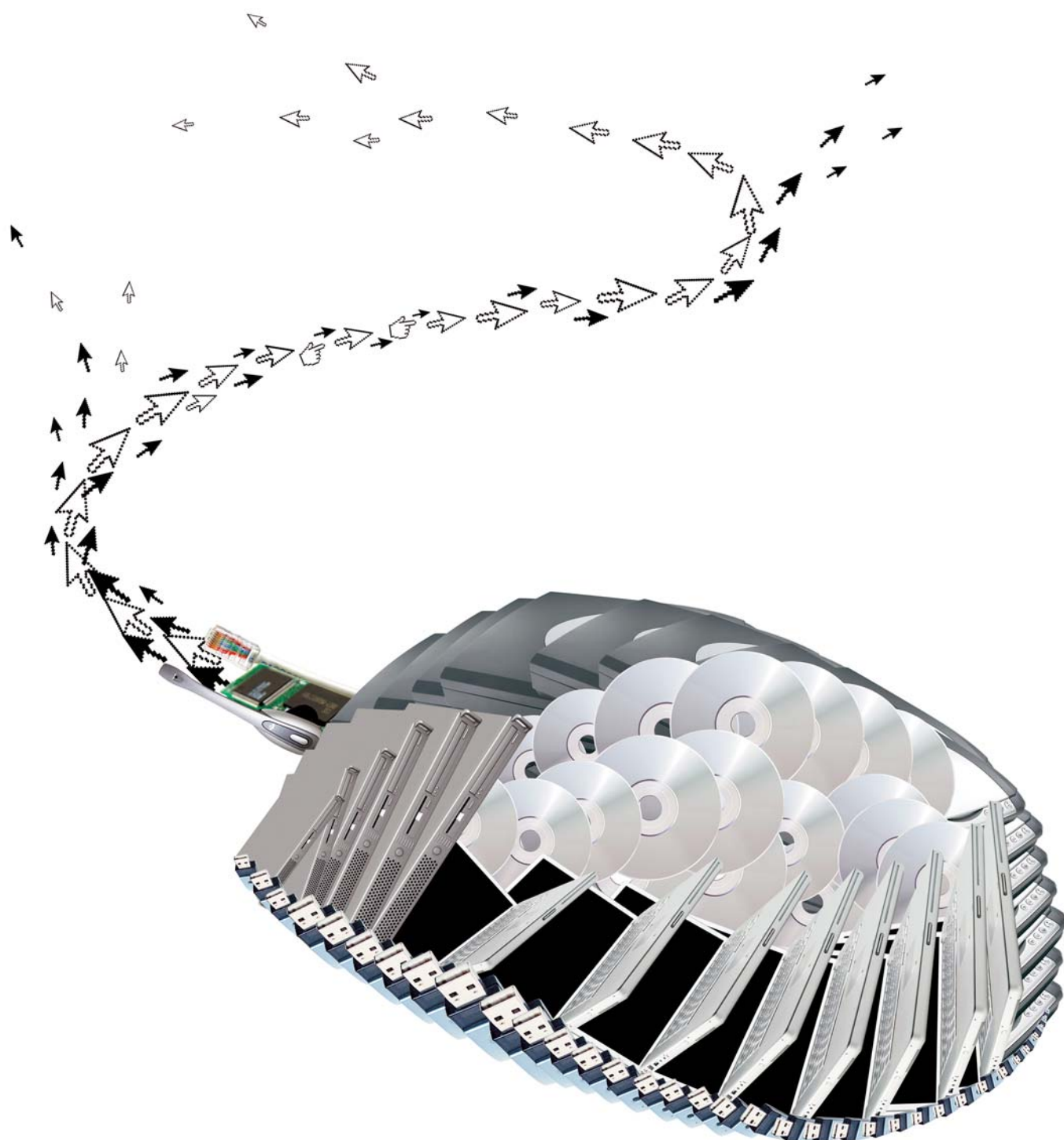


SPECIMEN PAPER

UNIT 1 - THE POTENTIAL OF 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 2 Diploma Principal Learning
Specimen Paper

Information Technology

INF2U1

Unit 1 The potential of technology

Date Time

For this paper you must have:

- another copy of the Preliminary Material

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.
- Throughout this paper you will be marked on your ability to use accurate spelling, punctuation and grammar (3 marks) and on your ability to use appropriate business and technical vocabulary (3 marks).
- The use of brand names in your answers will not gain credit.



SECTION 1: THE IMPACT OF ICT

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

1 (a) One example of technology that a business could use is video conferencing.

State and explain **two** ways in which a business could use video conferencing.

Use 1

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.....

.....

Use 2

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.....

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(4 marks)

1 (b) (i) State **one** way in which *Shout About It* could use Podcast creation software.

.....

.....

(1 mark)

1 (b) (ii) Explain why your answer to question 1(b)(i) is a benefit to *Shout About It*.

.....

.....

(1 mark)

1 (c) (i) *Shout About It* has a firewall protecting its computer network.

State **one** function of a firewall and explain how the function named is a benefit to *Shout About It*.

Function

.....

.....

(1 mark)

Benefit

.....

.....

(1 mark)

1 (d) Give **two** disadvantages of the current *Shout About It* computer system that will make it very difficult for Jessica to work from home.

Disadvantage 1

.....

Disadvantage 2

.....

(2 marks)

1 (e) *Shout About It* does not have any mobile computers at the moment.

State **two** reasons why the business may **not** want employees to have access to mobile computers.

Reason 1

.....

Reason 2

.....

(2 marks)

SECTION 2: TECHNOLOGY AND COMMUNICATION

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

2 (a) (i) State **three** different ways in which businesses could communicate with their suppliers.

1

2

3

(3 marks)

2 (a) (ii) Choose **one** of the communication methods given in question 2 (a)(i) and state **one** advantage to the business **and** one advantage to the supplier of communicating in this way.

Advantage to the business

.....

(1 mark)

Advantage to the supplier

.....

(1 mark)

2 (a) (iii) One way in which *Shout About It* communicates with its readers is through a blog on its website.

State **one** advantage of communicating with its readers in this way.

.....

.....

.....

(1 mark)

SECTION 3: KEY COMPONENTS OF A TECHNOLOGY SYSTEM

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

3 (a) The office computers are set up on a local area network (LAN).

Define the term *LAN*.

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.....
.....
.....

(2 marks)

3 (b) State **two** advantages of a LAN as opposed to stand alone computers.

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.....
.....
.....

(2 marks)

3 (c) Identify **two** items that are needed to enable connectivity within a LAN.

(i)

(ii)

(2 marks)

Turn over for the next question

Turn over ►

SECTION 4: IMPLEMENTING A NEW SYSTEM

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

4 You have been asked to write a report for *Shout About It* recommending the new system to enable Jessica Lack to work from home. After talking with Jessica and her editor, you have identified the following project aims.

Project Aims

- Jessica must be able to complete her work away from the office.
- Allow Jessica to access her files on the office computers from home.
- Allow Jessica to update the website and to do all necessary research from home.
- Allow Jessica to communicate easily with the other staff of *Shout About It*.
- Use technology imaginatively to allow the company to be more successful than its competitors.

As *Shout About It* wants the report to be easy to follow, they have asked you to write about it in sections as follows.*

4 (a) Write an introduction that describes the problems with *Shout About It's* **current system** that are preventing it from achieving the Project Aims.

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(3 marks)

* [Note to centres: for 'live' examinations, candidates may be asked to write either a whole report, or parts thereof.]

4 (b) State **three** different changes that *Shout About It* could make to achieve the Project Aims when Jessica is at home.

Change 1

.....

Change 2

.....

Change 3

.....

(3 marks)

4 (c) Explain how each of the three technologies in question 4(b) could be used at the magazine to improve the efficiency of the business.

Change 1

.....

Change 2

.....

Change 3

.....

(3 marks)

4 (d) State **three** benefits to the staff of the proposed changes.

Benefit 1

.....

Benefit 2

.....

Benefit 3

.....

(3 marks)

Turn over ►

4 (e) State **one** benefit to each of the readers, the galleries and the artists of the proposed changes.

Benefit to the readers

.....

Benefit to the galleries

.....

Benefit to the artists

.....

(3 marks)

4 (f) Write a conclusion, summarising your recommendations above.

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(3 marks)

END OF QUESTIONS