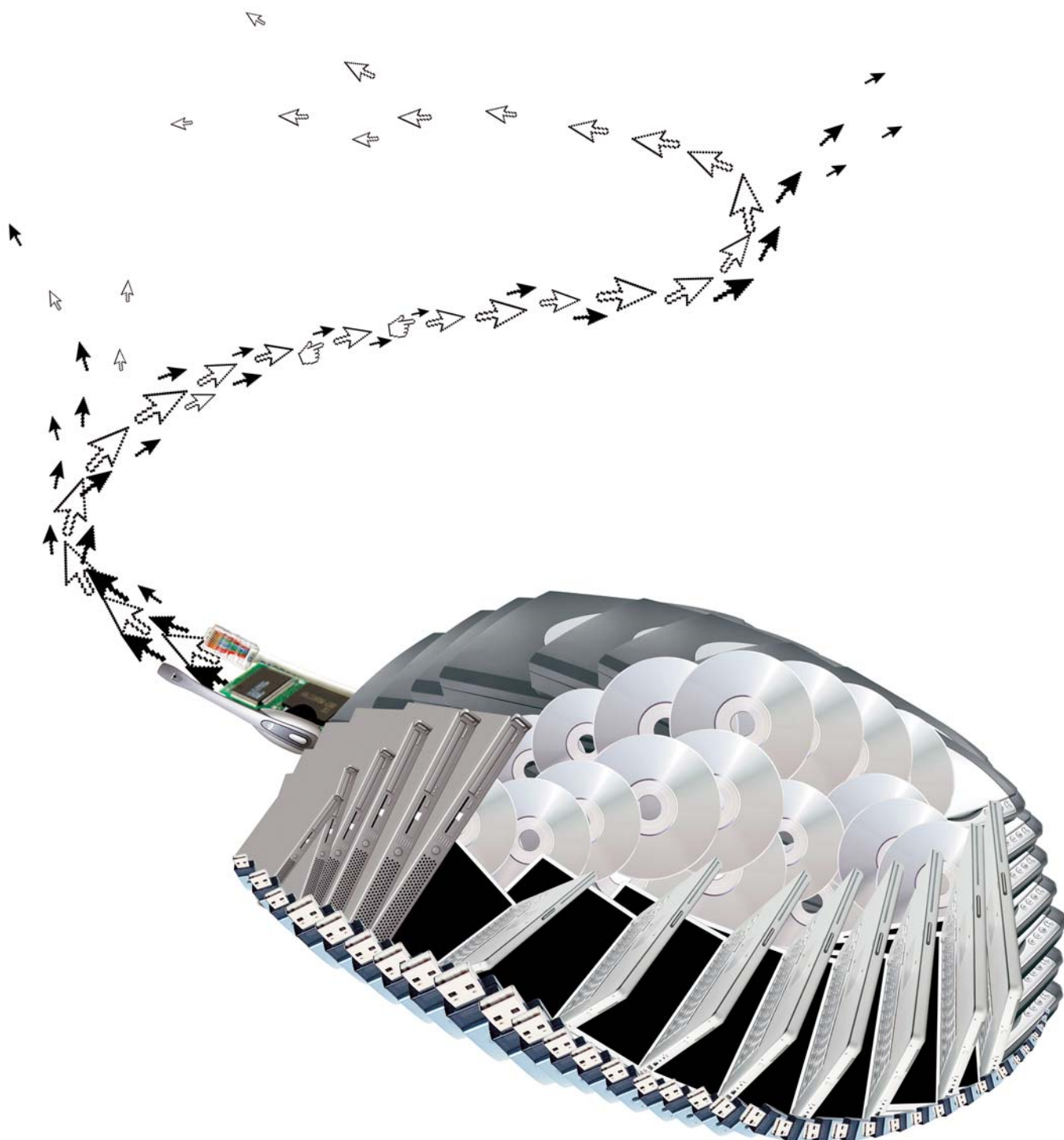


SPECIMEN PAPER

UNIT 3 - THE POTENTIAL OF TECHNOLOGY





Level 3 Diploma Principal Learning
Specimen Paper

Information Technology

INF3U1

Unit 3 The potential of technology

Date Time

For this paper you must have:

- your notes on the completed Tasks
- another copy of the Preliminary Material
- the answer book provided.

Time allowed

- 2 hours

Instructions

- Read **all** the questions carefully first before beginning the examination.
- Answer **all** the questions.
- Use black ink or black ball-point pen.
- Write the information required on the front of your answer book.
- Cross through any work you do not want to be marked.
- You can refer to your notes on the Research Tasks during the examination.
- Attach your notes on the Research Tasks to the back of your answer book at the end of the examination.

Information

- The maximum mark for this paper is 60.
- The marks for questions are shown in brackets.
- You are reminded of the need for the appropriate and accurate use of mathematics and English in your answers.

INF3U1

SECTION 1: INVESTIGATING AND EVALUATING THE USE OF TECHNOLOGY

Answer **all** questions.

- 1 (a) *Macau Industries* has been transformed by the introduction of Internet technologies.

Describe **one** way in which new technologies have contributed to their success.
(2 marks)

- 1 (b) Bryan Phillips is considering the possibility of *TrailerTech* abandoning its present procedure of taking orders over the telephone and instead receiving all their orders electronically using the Internet.

Describe **four** ways in which this would benefit *TrailerTech*.
(8 marks)

- 1 (c) *Macau Industries* uses Internet technologies to reach a *global market*.

Describe how the global nature of the Internet benefits *Macau Industries*.
(4 marks)

- 1 (d) Describe **two** reasons why staff at *TrailerTech* might be concerned about the introduction of new Internet technologies.

(4 marks)

SECTION 2A: BENEFITS AND RISKS OF NEW TECHNOLOGIES

Answer **all** questions.

- 2** (a) *TrailerTech*'s first attempt to take advantage of Internet technologies was unsuccessful and had to be abandoned.

Identify **one** example of wrong decisions made by *TrailerTech* when setting up their website, describing the effect of this wrong decision.

(2 marks)

- 2** (b) Explain how the use of **two** Internet technologies has improved the performance of *Macau Industries*.

(4 marks)

TURN OVER FOR THE NEXT SECTION

SECTION 2B: LEGACY SYSTEMS

Answer **all** questions.

- 3 *TrailerTech* use legacy systems.
- 3 (a) Explain what is meant by the term *legacy systems*. (2 marks)
- 3 (b) Identify **two** examples of legacy systems in use at *TrailerTech*. (2 marks)
- 3 (c) Explain **one** limitation of the use of legacy systems to *TrailerTech*. (2 marks)

SECTION 3: GENERATE IDEAS FOR NEW TECHNOLOGY SYSTEMS

Answer **all** questions.

- 4 (a) Copy the template below into your answer book and provide a SWOT analysis to identify the current risks and benefits to *TrailerTech*.

SWOT analysis

Internal strengths	Internal weaknesses
External opportunities	External threats

(8 marks)

- 4 (b) Assess the impact of introducing a new technology system at *TrailerTech* upon:
- its customers
 - its staff and
 - the organisation.

(3 marks)

-
- 4 (c) Write a report to the owner of *TrailerTech* detailing how the company can continue to grow by proposing, discussing and justifying how it can improve its service and meet the challenges it faces. You should make use of the information provided in your SWOT analysis in question 4(a).

Your report should cover:

- (i) problems with the current systems used at *TrailerTech*
- (ii) improvements in communications with customers and suppliers
- (iii) improvements in how the company collects, stores and uses data
- (iv) potential benefits and limitations of each improvement suggested
- (v) an analysis of the financial implications and cost effectiveness of each idea
- (vi) recommendations for the actions that should be taken.

(10 marks)

Your use of English will be assessed in this question. (6 marks)

Your use of mathematical analysis will be assessed in question 4(c)(v). (3 marks)

(Total for question 4(c) 19 marks)

END OF QUESTIONS