Centre Number

Student Number

2008

HIGHER SCHOOL CERTIFICATE EXAMINATION

Industrial Technology
Multimedia Industries

General Instructions

- Reading time – 5 minutes
- Working time – $1\frac{1}{2}$ hours
- Write using black or blue pen
- Draw diagrams using pencil
- Board-approved calculators may be used
- Write your Centre Number and Student Number at the top of this page and pages 5, 9, 13 and 17

Total marks – 100

Section I Pages 2–12

60 marks

- Attempt Questions 1–3
- Allow about 55 minutes for this section

Section II Pages 13–19

40 marks

- Attempt Questions 4–5
- Allow about 35 minutes for this section

Section I

60 marks
Attempt Questions 1–3
Allow about 55 minutes for this section

Answer the questions in the spaces provided.

Marks

Use the following information to answer Questions 1 and 2.

IND-TECH is a company in the multimedia industry seeking to increase its market share by establishing an overseas facility.

Question 1 (20 marks)

(a)   Identify TWO sources of finance that IND-TECH might use to fund the establishment of the overseas facility.

   2

   ....

   ....

   ....

   ....

(b)   How can IND-TECH locate and evaluate emerging technology?

   3

   ....

   ....

   ....

   ....

   ....

   ....

   ....

   ....

Question 1 continues on page 3

Question 1 (continued)

(c) Explain issues that may have influenced IND-TECH's decision to establish the overseas facility.

4

....

....

....

....

....

....

....

....

....

....

....

(d) How could the introduction of the new facility affect the marketability of IND-TECH's products?

4

....

....

....

....

....

....

....

....

....

....

Question 1 (continued)

(e) IND-TECH has identified quality control as a potential area of concern when overseas operations commence.

7

Evaluate strategies that can be implemented to establish and monitor the required standard of quality.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

End of Question 1

Centre Number

Student Number

Section I (continued)

Marks

Question 2 (20 marks)

(a)   Outline TWO issues that may be included in an *Environmental Impact Statement*
(EIS).

2

....

....

....

....

(b)   Why is it important to have an effective occupational health and safety (OHS)
policy in place when the new facility is established?

3

....

....

....

....

....

....

....

....

– 5 –

Question 2 (continued)

(c)   How could IND-TECH ensure that equal employment opportunity (EEO)   **4**
      principles are followed in the recruitment of new staff?

....

....

....

....

....

....

....

....

....

....

(d)   Evaluate a range of computing applications that could be used to maintain   **4**
      communication between the local facility and the overseas facility.

....

....

....

....

....

....

....

....

....

....

Question 2 (continued)

(e)   IND-TECH proposes to relocate some employees to the overseas facility to   **7**
assist in setting it up and training staff.

Analyse this proposal from the perspective of both IND-TECH and the
employees who would be relocating.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

End of Question 2

BLANK PAGE

Industrial Technology
Multimedia Industries

Section I (continued)

Marks

Question 3 (20 marks)

(a)   Name TWO software applications that can be used to graph production costs.   **2**

....

....

....

....

Use the following information to answer part (b).

The graph shows IND-TECH's past and predicted annual local production costs.
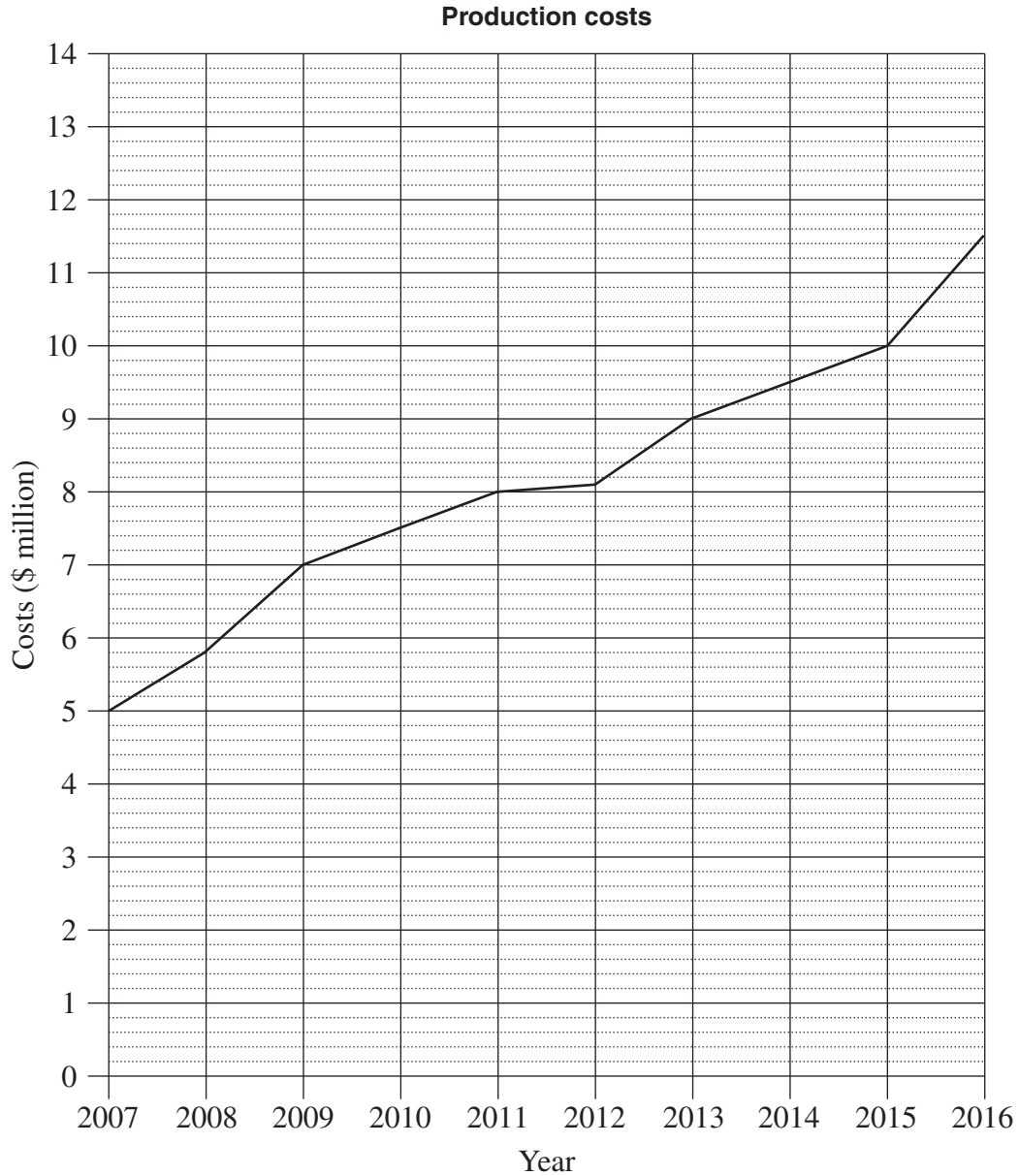
Production costs

IND-TECH's predicted annual overseas production costs are shown in the table.

Year	2009	2010	2011	2012	2013	2014	2015	2016
Production costs ($ million)	10.0	8.5	8.0	6.0	6.5	7.0	7.5	7.8

Question 3 continues on page 11

Question 3 (continued)

(b)   (i)   Graph the predicted annual overseas production costs on the grid on the previous page.   **2**

       (ii)   When should overseas production costs match local production costs?   **1**

       ....

       ....

       (iii)   Describe the trends in the graphs for local and overseas production costs.   **4**

       ....

       ....

       ....

       ....

       ....

       ....

       ....

       ....

       ....

       (iv)   Outline factors IND-TECH would need to consider when estimating predicted production costs.   **4**

       ....

       ....

       ....

       ....

       ....

       ....

       ....

       ....

       ....

Question 3 (continued)

(c) IND-TECH intends to produce an operations manual for the overseas facility   **7**
using a combination of text, graphics, photographs and charts.

Explain how the different forms of presenting the information would support the
purpose of the operations manual.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

End of Question 3

Industrial Technology
Multimedia Industries

Section II

Centre Number

Student Number

40 marks
Attempt Questions 4–5
Allow about 35 minutes for this section

Answer the questions in the spaces provided.

Marks

Question 4 (20 marks)

(a)   Name TWO types of storyboard used in multimedia.   **2**

....

....

(b)   Compare TWO formats that can be used to save digital images.   **3**

....

....

....

....

....

....

(c)   Evaluate the use of TWO audio file formats.   **4**

....

....

....

....

....

....

....

....

Question 4 (continued)

(d)   Describe TWO methods that can be used to back up data.   **4**

....

....

....

....

....

....

....

....

Question 4 continues on page 15

Question 4 (continued)

(e) A company is planning a new website to advertise its products.   **7**

Describe the processes involved in the design and production of the website.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

End of Question 4

BLANK PAGE

Industrial Technology
Multimedia Industries

Section II (continued)

Centre Number

Student Number

Marks

Question 5 (20 marks)

(a)   Outline the process of *morphing*.   **2**

....

....

....

....

(b)   A student created a website on a home computer and saved the file to a CD.   **3**
When the CD was used at school some of the hyperlinks did not work.

Outline a possible cause of the problem and a solution.

....

....

....

....

....

....

Question 5 (continued)

(c)   The owners of a website have hosted and distributed movies and television shows without permission.   **4**

Describe the ethical and copyright issues involved.

....

....

....

....

....

....

....

....

(d)   As part of its training program, a company wants to animate a series of images to show a sequence of operations.   **4**

Describe TWO appropriate animation techniques.

....

....

....

....

....

....

....

....

Question 5 (continued)

(e)   Discuss the advances in technology that have made video conferencing, utilising the world wide web, possible.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

End of paper

BLANK PAGE