

2008 HIGHER SCHOOL CERTIFICATE EXAMINATION

Industrial Technology Timber Products and Furniture 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 13–20

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 timber products and furniture 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

Marks

Question 1 continues on page 4

(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

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	lustries									
Sect	Section I (continued) Student Nu							Nun	nber	
									Ma	ırks
Que	estion 2 (20 marks)									
(a)	Outline TWO issues that may be included in an (EIS).	n <i>Envi</i>	ironn	ienta	ıl Imp	oact i	Statei	nent		2
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(b)	Why is it important to have an effective occupolicy in place when the new facility is estable	-		ealth	and	safe	ety (C	OHS)		3
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Question 2 continues on page 6

201a - 5 -

Question 2 continues on page 7

(e)	IND-TECH proposes to relocate some employees to the overseas facility to assist in setting it up and training staff.	7
	assist in seeing it up and training start.	
	Analyse this proposal from the perspective of both IND-TECH and the employees who would be relocating.	

End of Question 2

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Industrial Technology Timber Products and Furniture Industries							C	entre	e Nui	mber
Section I (continued)							Stuc	ıden	t Nu	mber
Que	estion 3 (20 marks)								M	arks
(a)	Name TWO software applications that can be	used	to g	raph	prod	uctio	n co	sts.		2
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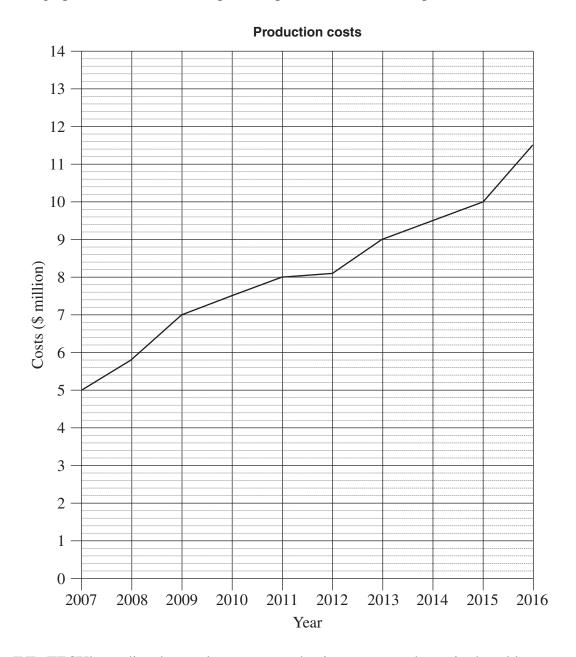
Question 3 continues on page 10

201b - 9 -

Question 3 (continued)

Use the following information to answer part (b).

The graph shows IND-TECH's past and predicted annual local 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

Questi	on 3 ((continued)	Marks
(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 continues on page 12

(c)	IND-TECH intends to produce an operations manual for the overseas facility using a combination of text, graphics, photographs and charts.	7
	Explain how the different forms of presenting the information would support the purpose of the operations manual.	

End of Question 3

2008 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Timber Products and Furniture Centre Number **Industries** Student Number **Section II** 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) IND-TECH is to produce the table shown for the quality furniture market. 2 Justify your choice of a suitable timber for the table. (a)

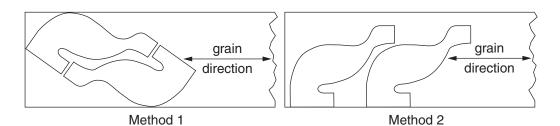
Question 4 continues on page 14

202 - 13 -

Que	stion 4 (continued)	Marks
(b)	Describe an industrial process that could be used to produce a decorative edge on the tabletop.	3
(c)	Name and describe the application of a suitable industrial product that can be used to achieve a high quality finish on the table.	4

Question 4 continues on page 15

(d) The table legs are marked out and cut from solid timber. TWO methods are shown.



utline an advantage and disadvantage of each method.								
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	scuss the implications of this practice and justify the use of an alternative
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End of Question 4

Industrial Technology Timber Products and Furniture Industries Section II (continued)	Centre Number Student Number
	Marks
Question 5 (20 marks)	
IND-TECH is to produce a step stool.	
(a) Why have the legs of the step stool shown been angled out?	2

Question 5 continues on page 18

202a - 17 -

Ques	Question 5 (continued)	
(b)	Name a suitable joint that could be used to attach the rails to the legs. Draw and label a sketch of this joint.	3
	Joint:	
(c)	Describe, with the aid of sketches, a method of cutting the hand grip into the top of the stool.	4

Que	stion 5 (continued)	
(d)	Describe methods of providing a non-slip surface on the step and top of the stool.	4

Marks

Question 5 continues on page 20

(e)	IND-TECH is considering mass-producing the stool as a 'flat pack'.	7
	Describe, with the aid of sketches, a manufacturing and assembly process that could be used by IND-TECH.	

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