

2004

HIGHER SCHOOL CERTIFICATE EXAMINATION

Industrial Technology Graphics 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.

Question 1 continues on page 3

		Marks
Ques	etion 1 (continued)	
(c)	Describe ways in which IND-TECH's management could evaluate the viability of introducing new technologies.	4
(d)	Explain how the introduction of new technologies could stimulate IND-TECH's productivity.	4

Question 1 continues on page 4

End of Question 1

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	ion I (continued)											
							St	uden	t Nu	mber		
One	estion 2 (20 marks)								M	arks		
Que	51011 2 (20 marks)											
(a)	Identify sources of finance that IND-TECH manner of the new technologies.	ay us	e to	supp	ort tl	ne int	trodu	iction	1	2		
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(b)	Outline possible changes to the production mattechnologies are introduced.	nage	r's re	spor	sibil	ities	wher	n new	7	2		
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Question 2 continues on page 6

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Question 2 continues on page 7

(e)	IND-TECH's management proposes to retrain their female employees to be specialist users of the new technologies.	8
	Analyse this proposal and discuss the responsibilities of IND-TECH's management towards all its employees.	

End of Question 2

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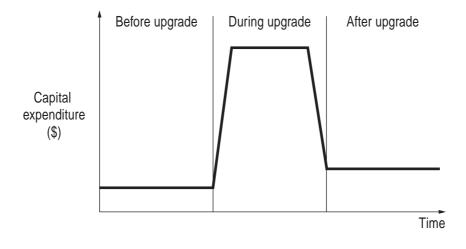
2004 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Centre Number Graphics Industries Section I (continued) Student Number Question 3 (20 marks) Marks Identify the sign shown and state how IND-TECH's employees should respond to The graph shows IND-TECH's expenditure in the year following the 2 introduction of the new technologies. Capital expenditure (12%) Miscellaneous (3%) Loans repayment (5%) Training and development (20%) Recurrent (60%) Identify reasons for the proportion being spent on training and development.

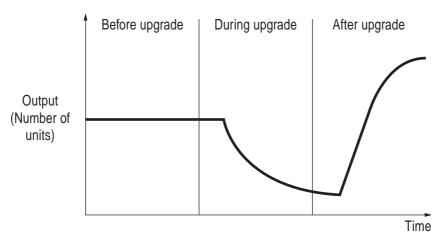
Question 3 continues on page 10

Question 3 (continued)

(c) The graphs below illustrate IND-TECH's capital expenditure and output before, during and after the introduction of new technologies.

4





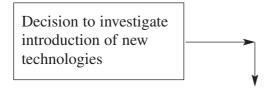
Explain the reasons for the changes in capital expenditure and output during and after the upgrade phases.

Question 3 continues on page 11

Question 3 (continued)

(d) Complete the diagram to show a sequence plan for the introduction of the new technologies at IND-TECH.

Introduction of new technologies plan





Question 3 continues on page 12

(e)	With the introduction of new technologies, IND-TECH proposes to use an external agency to assess the possible changes to the work environment.	8
	Outline the issues that could be identified. Propose and justify methods that IND-TECH's management could use to effectively communicate these issues to its employees.	

End of Question 3

Indi Gra	HIGHER SCHOOL CERTIFICATE EXAN USTRIAL TECHNOLOGY OPHICS INDUSTRIES	MINATION									Jarks 2
Allow	arks npt Questions 4–5 v about 35 minutes for this section er the questions in the spaces provid	led						St	uden	t Nu	mber
Ques	tion 4 (20 marks) Complete the table below, identifyin each item listed.		t app	oropr	iate	type	of dr	awir	ng fo		arks
	Item Internal features of a component	7	Гуре (of dr	awin	ng					
	Pictorial view of the exterior of a house										
	Multi-view drawing of a single component										
	Multi-view drawing of a machine										

Question 4 continues on page 14

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Question 4 continues on page 15

4

Awaiting Copyright Clearance
Figure 1
Awaiting Copyright Clearance
Figure 2

Question 4 continues on page 16

(e)	An architectural company has been employed by the Department of Housing to develop modifications to existing home designs to suit aged people.	8
	Propose and justify the procedural and consultative steps that architects would need to take to modify housing for aged people.	

End of Question 4

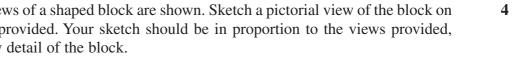
Inc	4 HIGHER SCHOOL CERTIFICATE EXAMINATION dustrial Technology raphics Industries		T				Centre Number			
Sect	tion II (continued)						St	uden	t Nu	mber
Que	estion 5 (20 marks)								M	arks
(a)	Give reasons for the use of scaled drawings.									2
(b)	Explain why drawing standards developed conform to international standards.	by S	Stanc	dards	Au	strali	a ne	ed to)	2
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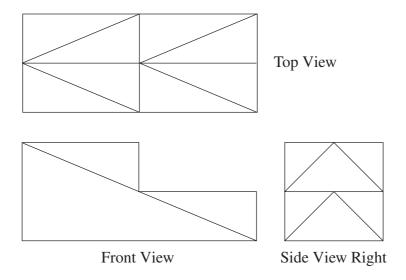
Question 5 continues on page 18

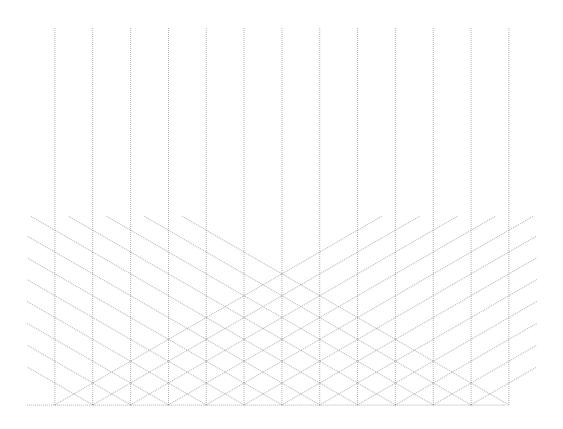
194a — 17 —

Question 5 (continued)

Three views of a shaped block are shown. Sketch a pictorial view of the block on the grid provided. Your sketch should be in proportion to the views provided, and show detail of the block.







Question 5 continues on page 19

Ques	tion 5 (continued)	Marks
(d)	Outline reasons for the increasing use of computer-aided drawing in the graphics industry.	4

Question 5 continues on page 20

	ain the purpose of using scale models, and outline the responsibilities of itects in preparing and presenting them.
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End of paper