

2005 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.

Marks

IND-TECH is a company in the graphics industry. The introduction of improved marketing strategies has increased demand for IND-TECH's products. Management is aware that a planned restructure and expansion program will impact on IND-TECH's production.

Question 1 (20 marks)

(a)	Greater demand for IND-TECH's products can be met through increased production.	2
	Identify TWO ways in which increased production can be achieved.	
(b)	Identify a marketing strategy, and outline how this strategy could increase the demand for a product.	3

Question 1 continues on page 3

Marks

Question 1 continues on page 4

(e)	Discuss the issues related to expanding IND-TECH in its present location rather than moving to a new location.	7

End of Question 1

Inc	s higher school certificate examination dustrial Technology aphics Industries						Ce	entre	Nur	mber
Sect	tion I (continued)				Centre Number Student Number Marks 2					
Que	estion 2 (20 marks)								M	arks
(a)	List TWO advantages of multiskilling in indus	stry.								2
(b)	Explain an effect that specialisation could workforce.	have	on	proc	luctio	on ar	nd on	the		3
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Question 2 continues on page 6

193a - 5 -

Marks

Question 2 continues on page 7

(e)	Before expanding or relocating, IND-TECH must prepare an Environmental Impact Statement (EIS).	7
	Identify and discuss issues that could be covered in this statement.	

End of Question 2

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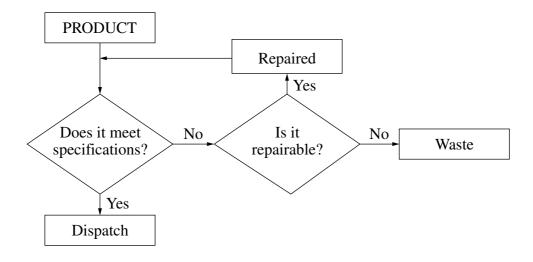
2005 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Centre Number Graphics Industries Section I (continued) Student Number Marks **Question 3** (20 marks) 2 Outline the purpose of a materials list in the planning or the production process. Explain why shapes and colours are used in safety symbols. Use an example to 3 support your answer.

Question 3 continues on page 10

193b - 9 -

(c) The diagram shows a process within a production system.

4



Identify the type of diagram used. Explain why this type of diagram is suitable for representing the steps outlined in this production system.

Question 3 continues on page 11

Ques	stion 3 (continued)	Marks
(d)	Outline the importance of function and aesthetics in the design of a product.	4

Question 3 continues on page 12

7

(e)	IND-TECH's management has employed an external consultant to produce a report on the planned restructuring and expansion of IND-TECH.
	Outline the processes the consultant would follow when:
	• collecting and analysing information
	recommending possible outcomes
	• preparing a draft report, and
	• presenting the findings.

End of Question 3

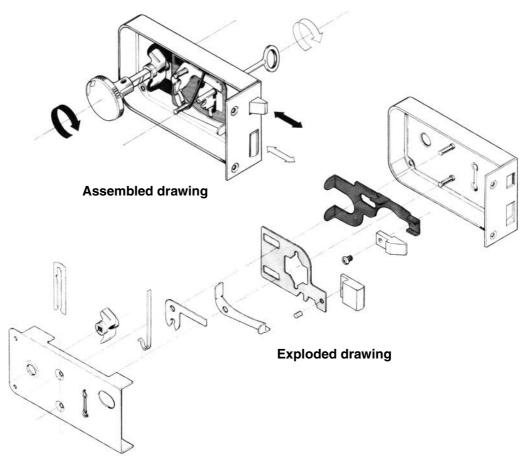
Ind	s higher school certificate examination lustrial Technology aphics Industries						C	Centre	e Nu	mber
Sec	tion II						St	uden	t Nu	mber
Atte	narks empt Questions 4–5 w about 35 minutes for this section						51	uden	i I (u.	moer
Ansv	wer the questions in the spaces provided.									
Que	stion 4 (20 marks)								M	arks
(a)	Identify TWO features of sectioned drawings.									2
4)										2
(b)	Outline the purpose of rendering when present	ıng p	rodu	ict c	once	pts.				3
		••••••	•••••	•••••	•••••	• • • • • • •	•••••	•••••	•	
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Question 4 continues on page 14

194 - 13 -

4

(c) An assembled drawing and an exploded drawing of a door lock are shown.



K.J.Dodds and P.S. Jordan, technical Studies Book 1 Pearson Education Australia (Longman), 1984

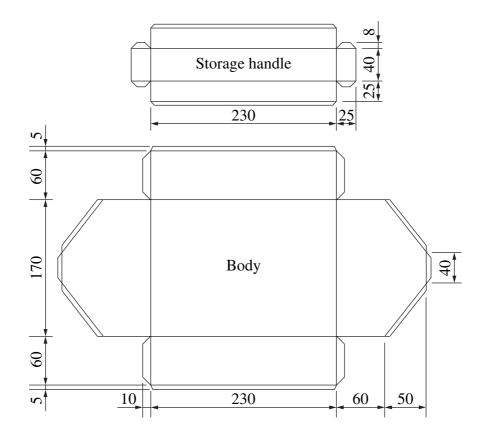
Compare the roles of assembled and exploded drawings.

Question 4 continues on page 15

(d) The development of parts of a tool tray is shown.

4

Sketch a pictorial view of the assembled tool tray in the space provided.



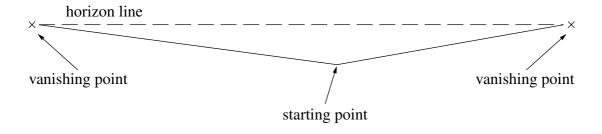
K.J. Dodds and P.S. Jordan, Technical Studies Book 1, Pearson Education Australia (Longman), 1984

	municate design ideas for projects.
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End of Question 4

2005 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Graphics Industries Section II (continued) Centre Number Student Number Marks Question 5 (20 marks) (a) Give TWO reasons why architects use models to represent ideas. 2 (b) The side and front view of a shed are shown. 3

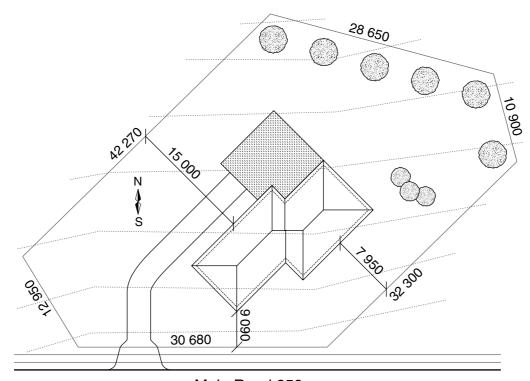
Draw a freehand perspective sketch of the shed, using the starting point provided.



Question 5 continues on page 18

-17-

(c) Identify the essential information this site plan provides, and explain its importance to a builder.



Main Road 259
Image supplied by cadbuild.com.au

Question 5 continues on page 19

Question 5 continues on page 20

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