



2002
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, 2 and 3.

I-Tech, a company operating in the multimedia industry, has been on the same site for a number of years. Owing to recent urban expansion and new Government legislation, the company reviews its current facilities, policies and practices.

Question 1 (20 marks)

(a)

As a r	result of this review I-Tech needs to reduce its pollution levels.	
(i)	Identify TWO different forms of pollution that I-Tech might produce.	2
(ii)	How would the forms of pollution identified in part (a) (i) affect the local community?	2

Question 1 continues on page 3

Question 1 continues on page 4

I-Tech's review concluded that an Environmental Impact Statement (EIS) would need to be prepared. Discuss issues that would be included in the EIS.

End of Question 1

Industrial Technology Multimedia Industries						C	entre	e Nu	mber	
Sect	cion I (continued)					Stı	ıdent	t Nu	mber	
Que	estion 2 (20 marks)							M	arks	
(a)	Employees may be involved in the treatmessential resources must I-Tech provide for t			ace i	njuri	es. V	What	t	2	
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							•••••			
							•••••			
			••••••	•••••	•••••		•••••	•		
(b)	What strategies could I-Tech implement to new staff?	ensure the	e effe	ective	ind	uctio	on of	f	2	
					•••••	•••••	•••••			
		•••••					•••••			
					•••••		•••••			
			•••••		•••••		•••••			

Question 2 continues on page 6

197a – 5 –

Ques	ation 2 (continued)	Marks
(c)	How could I-Tech ensure that Equal Employment Opportunity (EEO) principles are followed in the company?	4

Question 2 continues on page 7

Ques	tion 2 (continued)	Marks
(d)	Describe the possible role of unions as I-Tech considers changes to its workplace policies and practices.	4

Question 2 continues on page 8

Discus	are many issues involved in the reorganisation of I-Tech's operations. s the implications of improved materials and technologies on mental, and occupational health and safety (OHS) issues.
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End of Question 2

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Centre Number Multimedia Industries **Section I (continued)** Student Number Marks **Question 3** (20 marks) A worker has sustained a back injury while lifting a computer monitor, resulting in admission to the local hospital. As a result of this accident, I-Tech's OHS committee is to review current work practices. Outline the procedures that the OHS committee would use to obtain information 4 (a) for this review. As a result of the review, the OHS committee needs to prepare and present a 4 report for management. Outline the use of computer software in the preparation and presentation of this report.

Question 3 continues on page 10

8

	WALL CH	ART	

Question 3 continues on page 11

Question 3 (continued)

Working space for part (c) if required.

Question 3 continues on page 12

Item	Number	Cost	Total
Ambulance fees	3	\$136.00	
Days lost	23	\$111.00	
Hire of temporary staff	15	\$130.00	
Visits to doctor	5	\$45.00	
	Total cost		

Average cost to the company per accident \$.....

End of Question 3

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Multimedia Industries						Centre Num						
Sect	ion II							tuden	t Nuu	mher		
Atte	narks mpt Questions 4–5 w about 35 minutes for this section						5	tuden	t I vai	iioci		
Ansv	ver the questions in the spaces provided.											
Que	stion 4 (20 marks)								M	arks		
(a)	Name the basic storyboard layout indicated i	n the s	sketc	h.						1		
						-			· .			
(b)	Outline methods by which a colour photog reduced so that it can be included in a multir					have	its _]	paletto	e 	3		

Question 4 continues on page 14

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Que	stion 4	(continued)	Marks
(c)	Outlin	e a range of operations that could take place when editing a video sequence.	3
	•••••		
	•••••		
	•••••		
	•••••		
(d)	(i)	Identify and describe an external device that would be suitable for the storage of large multimedia files.	2
	(ii)	Discuss factors that will affect the quality and file size of digitised sound.	3

Question 4 continues on page 15

	computer. Discuss hardware and software solutions that could be employed duce this demand.
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End of Question 4

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Industrial Technology Multimedia Industries				Centre Numb				
Sect	ion II (continued)					Studen	t Nu	mber
							M	arks
Que	estion 5 (20 marks)							
(a)	The following images show the start and finish	n of a mo	tion	seque	ence.			1
	Start Name a technique that can be used to create the		Finis					
	Name a technique that can be used to create the	ic iliterili	cuiau	z IIIIa	ges.			
(b)	Explain how bitmapped images are stored in n	nemory.						3
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		•••••	•••••	••••••	•••••	• • • • • • • • • • • • • • • • • • • •	•	

Question 5 continues on page 18

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Question 5 continues on page 19

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