



2007 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.

IND-TECH is a company in the multimedia industry. The company has been awarded a major contract. To meet increased production requirements, the company needs to review its current facilities and practices.

Question 1 (20 marks)

Z 0 0.		
(a)	Outline a method of maintaining quality control during increased production.	2
(b)	Identify strategies that the company could use to obtain information for the review of its current facilities and practices.	3

Question 1 continues on page 3

Ques	stion 1	(continued)	Marks
(c)	(i)	Define the term <i>automation</i> .	1
	(ii)	Explain how automation can be used to improve the efficiency of production practices.	3
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	•.		
(d)		ss how increased production could impact on the organisation and gement of the company.	4
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Question 1 continues on page 4

(e)	IND-TECH is to investigate using other specialist organisations to supply some components for their products.	7
	Discuss the advantages and disadvantages of using other organisations in the production process.	

End of Question 1

Industrial Technology Multimedia Industries Centre						entre	Nuı	mber			
Sect	tion I (continued)						Stu	ıdent	Nur	mber	
Que	estion 2 (20 marks)								M	arks	
(a)	Identify strategies that could be used to m production at IND-TECH.	inimis	se wa	aste	from	the	incre	eased	l	2	
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(b)	What is meant by the term workplace IND-TECH could use to enhance workplace			Outlin	ne a	stra	ategy	that		3	
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Question 2 continues on page 6

197a — 5 —

Que	estion 2 (continued)	Marks
(c)	Discuss using examples, the impact of government legislation on employees.	4
(d)	Evaluate the role of computer technology in training employees.	4

Question 2 continues on page 7

	dentify and discuss personnel issues that could arise between management and mployees.
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2007 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Multimedia Industries Centre Number Section I (continued) Student Number Marks **Question 3** (20 marks) IND-TECH'S production targets for a 6-month period are shown. Month Units 1000 January February 1500 March 1900 1800 April May 2000 June 2300

(a) Outline reasons for producing production targets.

2

Question 3 continues on page 10

197b -9-

Oue	stion 3 (continued)		Marks
(b)		grid to represent IND-TECH's production targets.	3
	Units		
		Months	
(c)	The symbols shown	are examples of signage commonly used on packaging.	4
	Discuss the purpose	of placing graphical images on packaging.	
		TH	

Question 3 continues on page 11

Question 3 (continued)

(d) The company is required to package 10 500 units for distribution.

4

Complete the table indicating the cost of packaging these units. All prices are inclusive of GST.

Item	Cost	Total cost
Artwork	\$2100	\$2100
Materials	70c per unit	
Printing	35c per unit	
Labour	\$75 per 100 units	
	Total cost of packaging	
	Cost per unit	

Question 3 continues on page 12

	Outline and assess the use of computer-developed techniques and hand-drawn echniques in the development of packaging artwork.
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End of Question 3

2007 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Multimedia Industries Centre					: Nu	mber				
Section II Student							t Niii	mber		
Atte	narks empt Questions 4–5 w about 35 minutes for this section							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Ansv	wer the questions in the spaces provided.									
Que	stion 4 (20 marks)								M	arks
(a)	Identify two graphic file formats commonly to	ised ii	n cre	ating	wel	page	es.			2
					•••••					
(b)	Outline the advantages of using hypertext in	a mult	time	lia p	resei	ntatio	n.			3
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Question 4 continues on page 14

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Que	estion 4 (continued)	Marks
(c)	What factors need to be considered when preparing a document for electronic publication on the internet?	4
(d)	Identify and describe methods of converting an existing text document to an electronic format that can be edited.	4

Question 4 continues on page 15

	Identify and discuss information technologies that have enabled the increased use of multimedia on the World Wide Web.
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•	

End of Question 4

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Sect	Section II (continued) Stude				t Nun		
Que	estion 5 (20 marks)				Ma	arks	
(a)	List the components of a multimedia authoring system.					2	
(b)	Compression of graphics data is commonly used to save s	storage	space.			3	
	Identify and describe one technique for compressing graphics.						
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Question 5 continues on page 18

198a - 17 -

		Marks
Que	stion 5 (continued)	
(c)	Identify and describe the basic principles of ONE animation method.	4
(d)	Video components for multimedia productions require large amounts of storage capacity.	4
	Describe methods for reducing the file sizes of video components.	

Question 5 continues on page 19

(e)	A multimedia company is considering a proposal to replace a printed catalogue with a website. Examine and evaluate this proposal.	7

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