UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the June 2005 question paper

9705 DESIGN AND TECHNOLOGY

9705/01

Paper 1 (Written 1), maximum raw mark 120

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the Report on the Examination.

CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the June 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

in the July Conning Co

Grade thresholds taken for Syllabus 9705 (Design and Technology) in the Jul 2005 examination.

	maximum mark available	minimum mark required for grade:			
		А	В	Е	
Component 1	120	72	66	38	

The thresholds (minimum marks) for Grades C and D are normally set by dividing the mark range between the B and the E thresholds into three. For example, if the difference between the B and the E threshold is 24 marks, the C threshold is set 8 marks below the B threshold and the D threshold is set another 8 marks down. If dividing the interval by three results in a fraction of a mark, then the threshold is normally rounded down.

June 2005

GCE A/AS LEVEL

MARK SCHEME

MAXIMUM MARK: 120

SYLLABUS/COMPONENT: 9705/01

DESIGN AND TECHNOLOGY

Written 1

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Section A

				www.xtra	papers.com		
	Page 1		Mark Scheme GCE A/AS LEVEL – JUNE 2005	Par Par	ber		
			GCE AIAS LEVEL - JUNE 2003	100			
			Section A	S	andri		
1	(a)	Three piece e.g. related foot to knee	3	dindridge com			
	(b)	Three featu e.g. height of	3	6			
2	(a)	_	ers identified 3 x 1 nation of each 3 x 1	6			
	(b)	Four approp	oriate safety rules given 4 x 1	4	10		
3	(a)	Correct prod	duction method given i.e. lamination	1			
	(b)	Quality of ex	xplanation related to producing curved shape 0-3 marks	3			
	(c)	Basic sketcl 0-2 marks	hing showing some understanding of a former and its use				
		Good sketch and it use 3	hing showing a clear understanding of a former -4 marks	4	8		
4	(a)	i.e. making	ange made slots deeper 0-2 marks nation of change 0-2 marks	4			
	(b)	Appropriate	explanation related to the base being too small 0-2 marks	2			
	(c)	Clear expla	nation showing an enlarged base	2	8		
5	(a)	Correct mot	tion stated i.e. rotary	1			
	(b)		wing an appropriate mechanism 0-3 marks nation of mechanism and indication of moving parts 0-3 mark	s 6			
	(c)	Mechanism	correctly named i.e. bevel gears, worm gear	1	8		
	Section B						
6	(a)	Explanation	related to it being a brittle material which is easily broken 0-2 m	arks 2			
	(b)		terial named e.g. polystyrene 1 reason 1 mark	2			
	(c)	Cutting and	described 0-2 marks shaping described 0-3 marks tools and equipment explained 0-3 marks	8			
	(d)		of understanding the process shown 0-4 marks of understanding the process shown 5-8 marks	8	20		

Page 2		2200 2	Mark Scheme		₩WW.	www.xtrapaper		
		aye z	GCE A	A/AS LEVEL – JUNE 2005	12	apei		
7	(a)		etal identified 1 mark priate reasons for cho			alta Calmbridge		
	(b)	Suitable cro	oss section for rail dra	awn 0-2 marks		4 Mag		
	(c)	Appropriate	method given 0-2 mity of description 0-3		5			
	(d)		aterial identified 1 ma oriate reasons for cho			3		
	(e)		method given 0-2 mity of description 0-3			5 20		
8	(a)		od identified 1 mark oriate reasons for cho			3		
	(b)		method given 0-2 mity of communication			4		
	(c)		formation 0-2 marks es 0-4 marks	3		6		
	(d)	Suitable fini	sh identified			1		
	(e)	Details abou	ut application of finisl ut the working enviro ut cleaning the equip	onment 0-2 marks		6 20		
				Section C				
9	(a)	Four approp	oriate features identif	fied 4 x 1		4		
	(b)	` '	e described 0-4 mark /clarity of communica			6		
		(ii) As for p	oart (i)			6		
	(c)	Quality and	depth of discussion	0-4 marks		4 20		
10	(a)	Appropriate	disadvantage expla	ained 0-2 marks		2		
	(b)	Appropriate properties identified 3 x 1 Explanation of properties 3 x 1				6		
	(c)		ures identified 3 x 1 ity of communication	n 0-3 marks		6		
	(d)	Quality and depth of discussion 0-6 marks				6 20		
11	(a)	Appropriate A wood	materials identified B plastic	C metal 3 x 1		3		
	(b)	(i) Approp	oriate explanation 0-2	2 marks		2		

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(ii) Appropriate age ranges given 3 x 1 Appropriate explanations 3 x 1

(c) (i) Correct methods identified 3 x 1

(ii) Features identified 3 x 1 Quality/clarity of communication 0-3 marks