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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.

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

	maximum	1 0		
	mark available	Α	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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Page 1	Mark Scheme	Paper
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Section A

			1 12	_		
-	Page 1		Mark Scheme GCE A/AS LEVEL – JUNE 2005	Pa	aper M	
				QD0		
			Section A	1	Canny	
1	` ,	e.g. related	es of appropriate data identified 3 x 1 I to height and depth of wheelchair distance from e and knee to hip	3	Cambridge Con	1
	(b)		ures identified 3 x 1 of seat, depth of seat, height of table	3	6	1
2	(a)		gers identified 3 x 1 nation of each 3 x 1	6		
	(b)	Four appror	priate safety rules given 4 x 1	4	10	
3	(a)	Correct pro	duction method given i.e. lamination	1		
	(b)	Quality of e	explanation related to producing curved shape 0-3 marks	3		
		Basic sketch 0-2 marks	ching showing some understanding of a former and its use			
		Good sketch and it use 3	ching showing a clear understanding of a former 3-4 marks	4	8	
4	(a)		ange made slots deeper 0-2 marks anation of change 0-2 marks	4		
	(b)	Appropriate	e explanation related to the base being too small 0-2 marks	2		
	(c)	Clear expla	anation showing an enlarged base	2	8	
5	(a)	Correct mos	tion stated i.e. rotary	1		
	(b)		wing an appropriate mechanism 0-3 marks anation of mechanism and indication of moving parts 0-3 marks	6		
	(c)	Mechanism	n 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 marks	2		
	(b)		aterial named e.g. polystyrene 1 e reason 1 mark	2		
	(c)	Cutting and	t 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		Page 2	Mark Scheme	Paper	r
			GCE A/AS LEVEL – JUNE 2005	7.D.	
7	(a)		etal identified 1 mark oriate reasons for choice given 2 x 1	MANN, Paper	76.
	(b)	Suitable cro	ess section for rail drawn 0-2 marks ess section for leg drawn 0-2 marks	4	To
	(c)	Appropriate	method given 0-2 marks ty of description 0-3 marks	5	
	(d)		nterial identified 1 mark oriate reasons for choice given 2 x 1	3	
	(e)		method given 0-2 marks ty of description 0-3 marks	5	20
8	(a)		od identified 1 mark riate reasons for choice given 2 x 1	3	
	(b)		method given 0-2 marks ty of communication 0-2 marks	4	
	(c)		formation 0-2 marks es 0-4 marks	6	
	(d)	Suitable finis	sh identified	1	
	(e)	Details abou	ut application of finish 0-2 marks ut the working environment 0-2 marks ut cleaning the equipment 0-2 marks	6	20
			Section C		
9	(a)	Four approp	oriate features identified 4 x 1	4	
	(b)	\ <i>\</i>	e described 0-4 marks /clarity of communication 0-2 marks	6	
		(ii) As for p	part (i)	6	
	(c)	Quality and	depth of discussion 0-4 marks	4	20
10	(a)	Appropriate	disadvantage explained 0-2 marks	2	
	(b)		properties identified 3 x 1 of properties 3 x 1	6	
	(c)	•	ures identified 3 x 1 ty of communication 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	riate explanation 0-2 marks	2	

	GCE A/AS LEVEL – JUNE 2005	.0
(ii)	Appropriate age ranges given 3 x 1 Appropriate explanations 3 x 1	adaCambr.
(c) (i)	Correct methods identified 3 x 1	3 Table Co.
(ii)	Features identified 3 x 1 Quality/clarity of communication 0-3 marks	6 20

Mark Scheme