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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the October/November 2007 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 candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

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 discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page	e 2	Mark Scheme	Syllabus	er
			GCE A/AS LEVEL – October/November 2007	9705	1
	`´e S	e.g. acr Suitable	e sheet material named ylic, polystyrene, stainless steel, aluminium e reason for choice given es not require a surface finish	Syllabus 9705 (1) (1)	ambrig
	(b) (i		tting and finishing described	(0–3)	
			tails of tools, equipment and safety precautions necessary)	(0–3)	[6]
			propriate method of attachment described	(0-3)	
			tails of tools, equipment and safety precautions necessary)	(0-3)	[6]
	` '		nread cutting described etails of tools, equipment and safety precautions	(0–3)	
			f necessary)	(0-3)	[6]
				[To	otal: 20]
	` '		e material named	(1)	
	S	Suitable	ylic, polystyrene, MDF, plywood, hardboard e reason for choice given od surface finish, available in thin sheets	(1)	[2]
	(b) (i		rking out of comb joint described	(0–3)	
			tails of tools, equipment and safety precautions appropriate)	(0–3)	[6]
	(ii	•	king the comb joint described tails of tools, equipment and safety precautions	(0–3)	
	(if n		necessary) king the groove described	(0–3) (0–3)	[6]
		De	Details of tools, equipment and safety precautions (if necessary)	(0-3)	[6]
	(11.11)		icessal y)	,	رتا [20] otal:
	(a) C	الممانين	e card named	-	-
	` , e	g. wh	iteboard, cardboard	(1)	701
			e reason for choice given od surface to print on	(1)	[2]
	Base and		riate scale used	(1)	
			two sides shown cut-out window shown	(1) (1)	
	G	Glue ta	b shown	(1)	[4]
			awing described of equipment (including software)	(0–4) (0–3)	[7]
	L	ocialis	or equipment (including software)	(0-3)	[/]
			n forming described of tools, equipment and safety precautions	(0-4) (0-3)	[7]
			· ·	, ,	otal: 20]

				4	4	
	Pa	ge 3	Mark Scheme	Syllabus	2.0	er
	ı u	gco	GCE A/AS LEVEL – October/November 2007	9705	No.	
4	(a)	e.g. Rel	iate explanation lated to safe and correct use of product in accorda cturer's instructions	ance with	(0-2)	Cambridge
	(b)	Problem e.g. Pro	1 described 2 described oblems related to shade getting hot and electrical n of metal parts		(0–2) (0–2)	[4]
	(c)	Explanat e.g. solu	tion of how problem 1 could be overcome tion of how problem 2 could be overcome itions related to reducing heat, smaller bulb bles in shade, improving insulation, possible use of a s.	alternative	(0-3) (0-3)	[6]
	(d)	Explanat	n has been analysed and relevant issues/points identified tion of why issues/points are considered relevant example or evidence used to support answer	I	(0-3) (0-3) (0-2)	[8]
5	(a)		iate explanation ated to fixing brake to bicycle and allowing the arms of	the brake	(0–2)	[2]
	(b)	Problem	1 described 2 described ated to brake blocks wearing down and cable stretching		(0–2) (0–2)	[4]
	(c)	Explanat e.g. Solu	tion of how problem 1 could be overcome tion of how problem 2 could be overcome utions related to how the design of the brake allows for p I and replaced	earts to be	(0-3) (0-3)	
	(d)	Explanat	n has been analysed and relevant issues/points identified tion of why issues/points are considered relevant example or evidence used to support answer	I	(0-3) (0-3) (0-2)	[8]
					[T	otal: 20]
6	(a)		iate explanation ated to making it easier to open top by pushing finger into	o cut out	(0–2)	[2]
	(b)	Problem e.g. Prob	1 described 2 described blems related to top not closing very well, contents not b dust etc. can easily get inside box	peing very	(0–2) (0–2)	[4]

Page 4		Mark Scheme	Syllabus	2.0	er
	идс т	GCE A/AS LEVEL – October/November 2007	9705	3	2
(c)	Explana e.g. Sol ends of	tion of how problem 1 could be overcome tion of how problem 2 could be overcome utions related to increasing size of tuck in flap, putting sli the flap, adding two fold over flaps to the sides of the box more secure/clean		(0-3) (0-3)	Da Cambridge
(d)	Explana	n has been analysed and relevant issues/points identified tion of why issues/points are considered relevant example or evidence used to support answer		(0-3) (0-3) (0-2)	[8] [Total: 20]
7 (a)	OR The dev	-conceived idea presented relopment and selection of a range of ideas into a single I which would appear to work but lacks some technical det	•	(0–3) (4–7)	
	proposa solution Clarity a	relopment and selection of a range of ideas into a single I that includes sufficient technical detail to show that the p would clearly work nd quality of sketching and explanatory notes on (reasons for selection)	roposed	(8–10) (0–3) (0–3)	[16]
(b)	As for pa	art (a)			[16]
(c)	As for pa	art (a)			[16]
(d)	As for pa	art (a)			[16]
(e)		wing will exhibit a reasonable standard of outcome an the required design features	d show	(0-3)	
	The drav	wing will exhibit a good standard of outcome and show mo eatures required to make the product function as intended	st of the	(4–7)	
		wing will be completed to a high standard of outcome and design features required to make the product fund	ction as	(8–10)	
	Some u drawing OR	se made of colour and tone to enhance the visual impac	ct of the	(0-2)	
	Good us of the dr OR	se has been made of colour and tone to enhance the visual awing	l impact	(3–4)	
		od use has been made of colour, tone and material repres nce the visual impact of the drawing	entation	(5–6)	

[Total: 80]

		- 1		
Page 5	Mark Scheme	Syllabus	er	
	GCE A/AS LEVEL – October/November 2007	9705	100	
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- 8 (a) As for Question 7 part (a)
 - (b) As for Question 7 part (a)

(c)	As for Question 7 part (a)	[16]
` '	,	

(d)	Appropriate size/proportions and scale used for the development (net/s)	(0-2)	
	showing		
	Sides, ends and base	(0-3)	
	Top and handle	(0-4)	
	Internal partitions	(0-4)	
	Glue tabs, fold lines and any other fixing methods	(0-3)	[16]
	-	` ,	

(e) As for Question 7 part (e) [16]

[Total: 80]

9 Marking of this question will be the same as for **Question 7**.