UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Advanced Subsidiary Level and GCE Advanced Level

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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 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Pag	e 2	Mark Scheme	Syllabus	. A.	
•		GCE A/AS LEVEL – October/November 2008	9705	SD2	
(a)	e.g.	able sheet material named acrylic, polystyrene, stainless steel, aluminium able reason for choice given		44444 Baba (1) (1) (0-3)	ambrio
		does not require a surface finish		(1)	
(b)	(i)	Cutting and finishing described Details of tools, equipment and safety precautions (if nece		(0–3) (0–3)	[6]
	(ii)	Appropriate method of bending described Details of tools, equipment and safety precautions (if nece	essary)	(0–3) (0–3)	[6]
	(iii)	Joining method described Details of tools, equipment and safety precautions (if nece	essary)	(0–3) (0–3)	[6]
				[Tot	tal: 20]
(a)	e.g.	able material named mild steel, aluminium, galvanised steel		(1)	
		able reason for choice given easily shaped, low cost		(1)	[2]
(b)	(i)	Cutting and finishing described Details of tools, equipment and safety precautions (if appr	ropriate)	(0–3) (0–3)	[6]
	(ii)	Use of bending jig described Details of tools, equipment and safety precautions (if nece	essary)	(0–3) (0–3)	[6]
	(iii)	Method of attachment described Details of tools, equipment and safety precautions (if nece	essary)	(0–3) (0–3)	[6]
				[Tot	tal: 20]
(a)		able card named			
	•	corrugated cardboard able reason for choice given		(1)	
	e.g.	related to strength of material		(1)	[2]
(b)	App Bas Side			(1) (1) (2)	
	Bac	k		(2) (1)	
	⊢roi	nt with hole		(1)	[6]

Pad	e 3	Mark Scheme Sy	llabus	
U			9705 20	
(c)	L S	Any slot shown Any tab shown Locking tab Slot smaller than tab Description of method	vilabus 9705 (1) (1) (1) (1) (1) (1) (0-2) (0-4)	ambridg [6]
	• •	CAM described Details of equipment (including software)	(0–4) (0–2)	[6]
			[To	otal: 20]
(a)		ropriate explanation related to stopping legs from bending out	(0–2)	[2]
(b)	Prob	blem 1 described blem 2 described problems related to corrosion and material getting hot in the s	(0–2) (0–2) sun	[4]
(c)	Expla e.g. s	anation of how problem 1 could be overcome anation of how problem 2 could be overcome surface finish needs to be applied, possible use of alternative ding put on seat	(0–3) (0–3) materials,	[6]
(d)	Expla	ation has been analysed and relevant issues/points identified anation of why issues/points are considered relevant cific example or evidence used to support answer	(0–3) (0–3) (0–2)	[8]
			[To	otal: 20]
(a)		opriate explanation Related to fixing the packaging together	(0–2)	[2]
(b)	Probl e.g. r	lem 1 described lem 2 described related to handle cut out being too small and bottle being able e ends of the packaging	(0–2) (0–2) e to fall out	[4]
(c)	Expla e.g. s	anation of how problem 1 could be overcome anation of how problem 2 could be overcome solutions related to making the handle cut out a suitable shap some form of ends added to packaging	(0–3) (0–3) e and size	[6]
(d)	Expla	ation has been analysed and relevant issues/points identified anation of why issues/points are considered relevant cific example or evidence used to support answer	(0–3) (0–3) (0–2)	[8]

Pag	e 4	Mark Scheme	Syllabus	S.	
		GCE A/AS LEVEL – October/November 2008	9705	Da	
(a)		opriate explanation elated to strengthening the bracket		44444 BabaCal. (0-2) (0-2) (0-2)	nbrio
(b)	Proble e.g. p	em 1 described em 2 described roblems related to shelf bending/breaking methods being pulled apart		(0–2) (0–2)	[4]
(c)	Expla e.g. s	nation of how problem 1 could be overcome nation of how problem 2 could be overcome olutions related to increasing thickness of wood ling more and or better support		(0–3) (0–3)	[6]
(d)	Expla	ion has been analysed and relevant issues/points ident nation of why issues/points are considered relevant fic example or evidence used to support answer	ified	(0–3) (0–3) (0–2)	[8]
				[Total	: 20]
(a)	OR The d	pre-conceived idea presented evelopment and selection of a range of ideas into a sing would appear to work but lacks some technical detail	gle design pro	(0–3) oposal (4–7)	
	OR The d	evelopment and selection of a range of ideas into a singles sufficient technical detail	• • •	posal that	
		y and quality of sketching and explanatory notes ation (reasons for selection)		(0-3) (0-3)	[16]
(b)	As for	- part (a)			[16]
(c)	As for	- part (a)			[16]
(d)	As for	- part (a)			[16]

			2.
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	•		

(e) The drawing will exhibit a reasonable standard of outcome and show some of the design features (0-3)

OR

ambridge.com The drawing will exhibit a good standard of outcome and show most of the design features required to make the product function as intended (4 - 7)OR

The drawing will be completed to a high standard of outcome and fully show the design features required to make the product function as intended (8–10)

Some use made of colour and tone to enhance the visual impact of the drawing (0-2)

OR

Good use has been made of colour and tone to enhance the visual impact of the drawing (3–4)

OR

Very good use has been made of colour, tone and material representation to enhance the visual impact of the drawing (5-6)[16]

[Total: 80]