### UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

# MARK SCHEME for the October/November 2008 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.

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	Pag	e 2	Mark Scheme	Syllabus	Paper	
			GCE A/AS LEVEL – October/November 2008	9705	01	
1	(a)		able sheet material named acrylic, polystyrene, stainless steel, aluminium		(1)	
			ble reason for choice given does not require a surface finish		(1)	[2]
	(b)	` '	Cutting and finishing described Details of tools, equipment and safety precautions (if ne	ecessary)	(0–3) (0–3)	[6]
			Appropriate method of bending described Details of tools, equipment and safety precautions (if ne	ecessary)	(0-3) (0-3)	[6]
			Joining method described Details of tools, equipment and safety precautions (if ne	ecessary)	(0-3) (0-3)	[6]
					[Tot	al: 20]
2	(a)	e.g. r	able material named mild steel, aluminium, galvanised steel able reason for choice given		(1)	
			easily shaped, low cost		(1)	[2]
	(b)		Cutting and finishing described Details of tools, equipment and safety precautions (if ap	propriate)	(0–3) (0–3)	[6]
			Use of bending jig described Details of tools, equipment and safety precautions (if ne	ecessary)	(0-3) (0-3)	[6]
			Method of attachment described Details of tools, equipment and safety precautions (if ne	ecessary)	(0-3) (0-3)	[6]
					[Tot	al: 20]
3	(a)	e.g. d	able card named corrugated cardboard able reason for choice given		(1)	
			related to strength of material		(1)	[2]
	(b)	Appro Base Sides Back	s		(1) (1) (2) (1)	
		Front	t with hole		(1)	[6]

	Pag	e 3	Mark Scheme	Syllabus	Paper	
			GCE A/AS LEVEL – October/November 2008	9705	01	
	(c)	A L S	any slot shown any tab shown ocking tab slot smaller than tab Description of method		(1) (1) (1) (1) (0-2)	[6]
		` '	CAM described Details of equipment (including software)		(0–4) (0–2)	[6]
					[Total	: 20]
4	(a)		opriate explanation elated to stopping legs from bending out		(0–2)	[2]
	(b)	Proble	em 1 described em 2 described roblems related to corrosion and material getting hot in	the sun	(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 urface finish needs to be applied, possible use of alterr ng put on seat	native materials,	(0-3) (0-3)	[6]
	(d)	Expla	ion has been analysed and relevant issues/points iden nation of why issues/points are considered relevant fic example or evidence used to support answer	tified	(0-3) (0-3) (0-2)	[8]
					[Total	: 20]
5	(a)		opriate explanation Related to fixing the packaging together		(0–2)	[2]
	(b)	Proble e.g. re	em 1 described em 2 described elated to handle cut out being too small and bottle being ends of the packaging	g able to fall out	(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 making the handle cut out a suitable ome form of ends added to packaging	shape and size	(0-3) (0-3)	[6]
	(d)	Expla	ion has been analysed and relevant issues/points iden nation of why issues/points are considered relevant fic example or evidence used to support answer	tified	(0-3) (0-3) (0-2)	[8]

[Total: 20]

	Pag	e 4		Mark Sche	me	Syllabus	Paper	
	· ug	•		GCE A/AS LEVEL - Octob		9705	01	
6	(a)			ate explanation ted to strengthening the brac			(0–2)	[2]
	(b)	Proble e.g. p	lei pro	1 described 2 described plems related to shelf bending ethods being pulled apart	g/breaking		(0–2) (0–2)	[4]
	(c)	Expla e.g. se	an so	tion of how problem 1 could be tion of how problem 2 could be tions related to increasing thing g more and or better support	oe overcome		(0-3) (0-3)	[6]
	(d)	Expla	an	n has been analysed and rele tion of why issues/points are example or evidence used to	considered relevant	tified	(0-3) (0-3) (0-2)	[8]
							[Tota	l: 20]
7	(a)	One p	pr	-conceived idea presented			(0–3)	
				elopment and selection of a rould appear to work but lacks	•	ngle design prop	oosal (4–7)	
				elopment and selection of a r sufficient technical detail to s				
				nd quality of sketching and eaction (reasons for selection)	xplanatory notes		(0-3) (0-3)	[16]
	(b)	As for	or į	art <b>(a)</b>				[16]
	(c)	As for	or I	art <b>(a)</b>				[16]
	(d)	As for	or <sub>l</sub>	art (a)				[16]

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

### OR

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]