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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	Page 2		Mark Scheme	Syllabus	Paper	
			GCE A/AS LEVEL – October/November 2008	9705	01	
1	(a)	e.g. a	Suitable sheet material named e.g. acrylic, polystyrene, stainless steel, aluminium Suitable reason for choice given		(1)	
		e.g. (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	ble material named mild steel, aluminium, galvanised steel ble 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]
		• •	Jse 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. (ible card named corrugated cardboard ible reason for choice given		(1)	
			elated to strength of material		(1)	[2]
	(b)	Appr Base	opriate scale used		(1)	
		Sides	S		(1) (2)	
		Back Fron	t with hole		(1) (1)	[6]

Page 3		e 3	Mark Scheme Sy		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]
					[Tota	l: 20]
4	(a)		opriate explanation elated to stopping legs from bending out		(0–2)	[2]
	(b)	Probl	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 surface finish needs to be applied, possible use of alterr ing put on seat	native materials,	(0–3) (0–3)	[6]
	(d)	Expla	tion has been analysed and relevant issues/points iden anation of why issues/points are considered relevant ific example or evidence used to support answer	tified	(0–3) (0–3) (0–2)	[8]
					[Total	l: 20]
5	(a)		opriate explanation Related to fixing the packaging together		(0–2)	[2]
	(b)	Proble.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 colutions related to making the handle cut out a suitable come form of ends added to packaging	shape and size	(0–3) (0–3)	[6]
	(d)	Expla	tion has been analysed and relevant issues/points iden nation of why issues/points are considered relevant ific example or evidence used to support answer	tified	(0-3) (0-3) (0-2)	[8]
					[Tota	: 20]

	Page 4		Mark Scheme	Syllabus	Paper	
			GCE A/AS LEVEL – October/November 2008	9705	01	
6	(a)		priate explanation elated to strengthening the bracket		(0–2)	[2]
	(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 iden nation of why issues/points are considered relevant fic example or evidence used to support answer	ntified	(0–3) (0–3) (0–2)	[8] • 201
					[Total	: 20]
7	(a)	One p OR	pre-conceived idea presented		(0–3)	
		which	evelopment and selection of a range of ideas into a sir would appear to work but lacks some technical detail	ngle design prop	oosal (4–7)	
			evelopment and selection of a range of ideas into a sir les sufficient technical detail to show that the proposed			
		-	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]

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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]