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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**GCE Advanced Subsidiary Level and GCE Advanced Level** 

## MARK SCHEME for the October/November 2009 question paper for the guidance of teachers

## 9705 DESIGN AND TECHNOLOGY

9705/11

Paper 11 (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, which would have considered the acceptability of alternative answers.

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 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2		)	Mark Scheme: Teachers' version	Syllabus	-r		
			GCE A/AS LEVEL – October/November 2009 9705		9705			
1	(a)	a) (i) Suitable sheet material named e.g. stainless steel, aluminium, mild steel Suitable reason for choice given e.g easy to clean, can withstand heat		Syllabus 7.70 AMARCS	MI	ridge		
	(b)	(i)		ing and finishing described ails of tools, equipment and safety precautions (if appro	(0–3 opriate) (0–3	,	[6]	
		(ii) use of template and drilling process described Details of tools, equipment and safety precautions (if appro		•	(0–3 opriate) (0–3	,	[6]	
	(	(iii) Joining of method described Details of tools, equipment and safety precautions (if appropriate)		(0–3 opriate) (0–3	,	[6]		
					[Tota	[Total: 20]		
2	e.g. pl		. plyw	material named rood, MDF reason for choice given	(*	۱)		
				ly shaped, low cost, good surface for painting	(1	1)	[2]	
	(b)	(i)		ing and finishing described ails of tools, equipment and safety precautions (if appro	(0–3 opriate) (0–3		[6]	
		(ii)		ing of method described ails of tools, equipment and safety precautions (if appro	(0–3 opriate) (0–3	,	[6]	
	(	(iii)		lying painted finish described ails of tools, equipment and safety precautions (if appro	(0–3 opriate) (0–3	,	[6]	
					[Tota	d: 2	20]	
3	(a)	<ul> <li>(a) Suitable thickness stated</li> <li>e.g. 1 – 2 mm, 1000 – 2000 microns</li> <li>Suitable reason for choice given</li> <li>e.g. related to strength /stability of material and its ability to support weight of</li> </ul>		(′ port weight of leaflets(′		[2]		
	(b)	(i)	Meth Slot	ropriate slots shown in part B nod shows how given slots in part A slot into part B and tab to fix base in place ar description of method	(0-2 (′ (0-2	() ()	[6]	
		(ii)		ing and using stencil described ails of tools, equipment and safety precautions	(0–3 (0–3	•	[6]	
	(c)		Fron Side Base	es	(´ (´ (0–2 (´	) 2) 1)	[6]	

[Total: 20]

Page 3	Mark Scheme: Teachers' version	Syllabus	· Ag Per
	GCE A/AS LEVEL – October/November 2009	9705	120

## Section B

	Page 3			Habus A. Adda er 9705		
			GCE A/AS LEVEL – October/November 2009	9705		
	Section B					
4	(a)		ate explanation ed to improved stability and providing support for top frame	(0-2)	Se.com	
	(b)	Problem 1 described Problem 2 described e.g. problems related to poor stability and weak support for top		(0-2) (0-2)	[4]	
	(c)	<ul> <li>(c) Explanation of how problem 1 could be overcome Explanation of how problem 2 could be overcome e.g. making bottom frame larger, adding additional support for top</li> <li>(d) Situation has been analysed and relevant issues / points identified Explanation of why issues / points are considered relevant Specific example or evidence used to support answer</li> </ul>		(0–3) (0–3)	[6]	
	(d)			(0-3) (0-3) (0-2)	[8]	
				[Total:	20]	
5	(a)		ate explanation ed to enabling packaging to hang from a display rack	(0-2)	[2]	
	(b)	Problem:	1 described 2 described ed to packaging not hanging straight and poor security for M	(0–2) (0–2) IP3 player	[4]	
	(c)	Explanati e.g. solut	ion of how problem 1 could be overcome ion of how problem 2 could be overcome ions related to moving position of hanging slot so that packaging is secured by gluing or shrink wrapping.	(0–3) (0–3) ckaging will	[6]	
	(d)	Explanati	has been analysed and relevant issues / points identified on of why issues / points are considered relevant example or evidence used to support answer	(0-3) (0-3) (0-2)	[8]	
				[Total:	20]	
6	(a)		ate explanation bles parts to be assembled and disassembled	(0-2)	[2]	
	(b)	Problem:	1 described 2 described lems related to small are for attaching top and rail, poor stab	(0–2) (0–2) bility	[4]	

Da		ao 1	Mark Scheme: Teachers' version	Syllabus	Or
	ra	ge 4	GCE A/AS LEVEL – October/November 2009	9705	20
((	c)	Explanat e.g. solut	ion of how problem 1 could be overcome ion of how problem 2 could be overcome tions related to adding rails to attach / support top g design to give more surface area in contact with the	floor and possible	abacambride
(0	d)	Explanat	has been analysed and relevant issues / points identification of why issues / points are considered relevant example or evidence used to support answer	fied	(0-3) (0-3) (0-2) [8]
					[Total: 20]
			Section C		
7 (a	a)	OR .	conceived idea presented	o dooign	(0-3)
			elopment and selection of a range of ideas into a single which would appear to work but lacks some technical	•	(4–7)
		The developroposal solution value Clarity ar	elopment and selection of a range of ideas into a single that includes sufficient technical details to show that the would clearly work and quality of sketching and explanatory notes on (reasons for selection)	_	(8–10) (0–3) (0–3) [16]
(I	b)	As for pa	art (a)		[16]
(0	c)	As for pa	art (a)		[16]
(0	d)	As for pa	art (a)		[16]
(6	e)		ving will exhibit a reasonable standard of outcome an s red design features	show some of	(0-3)
		The draw	ving will exhibit a good standard of outcome and show required to make the product function as intended	the design	(4–7)
		The draw	ving will be completed to a high standard of outcome a in features required to make the product function as in	-	(8–10)
		Some us drawing <b>OR</b>	e made of colour and tone to enhance the visual impa	ct of the	(0–2)
			e has been made of the colour and tone to enhance th f the drawing	e visual	(3–4)
			d use has been made of colour, tone and material rep the visual impact of the drawing	resentation to	(5–6) [16]
					[Total: 80]