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CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the October/November 2012 series

9705 DESIGN AND TECHNOLOGY

9705/11 Paper 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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2	Mark Scheme	Syllabus	Paper
	GCE AS/A LEVEL – October/November 2012	9705	11

Section A

1	(a) Layers of veneer shown Grain at right angles on alternate layers			[2]	
	(b) (i	Making of jig described Using jig described Details of tools, equipment and safety precautions (if necessary)	(0-2) (0-2) (0-2)	[6]	
	(ii	Making joint described Details of tools, equipment and safety precautions (if necessary)	(0-3) (0-3)	[6]	
	(iii	Painting process described Details of tools, equipment and safety precautions (if necessary)	(0–3) (0–3)	[6]	
			[Total: 20		
2	e S e	e.g. laminating, varnishing, UV lacquer Suitable reason for choice e.g. strengthens product, gives glossy appearance, makes surface easier to clean		[2]	
		Slot and tab fixing drawn Making process described		[6]	
	4 B S	ppropriate scale sides ase lot and tab fixing and glue tab (or slots and tabs) loney slot	(1) (0–2) (1) (1) (1)	[6]	
	D	ie cutting process described etails of tools, equipment and safety precautions f necessary)	(0–4) (0–2)	[6]	

	Page 3		Mark Scheme	Syllabus	Paper	•
			GCE AS/A LEVEL – October/November 2012	9705	11	
3	(a) Suitable sheet material named e.g. acrylic, perspex, polystyrene, aluminium, stainless steel Suitable reason for choice given e.g. waterproof, no surface finish required, easy to bend			(1) (1)	[2]	
	(b)	(ii) C	Sending process described Details of tools, equipment and safety precautions If necessary) Cutting out described		(0-3) (0-3) (0-2)	[6]
		D	Smoothing edges and holes drilled described Details of tools, equipment and safety precautions f necessary)		(0–2)	[6]
	(-	appropriate method of joining identified .g. screws		(1)	
		D	Appropriate joining method described Details of tools, equipment and safety precautions		(0-3)	[0]
		(11	f necessary)		(0–2) [Total	[6]
					[TOTAL	. 20]
			Section B			
4	(a)	Notes	s and sketch to show how tab fits in slot to hold box togethe	er	(0–2)	[2]
	 (b) Problem 1 described Problem 2 described e.g. problems related to it being difficult to get forms out of tray, not being able to see lettering when tray is full of forms 		(0–2) (0–2)	[4]		
	` ,	Explai e.g. re	nation of how problem 1 could be overcome nation of how problem 2 could be overcome emove part of front of tray, make back of tray higher and mag up, put lettering somewhere else on tray	nove	(0-3) (0-3)	[6]
		Expla	tion has been analysed and relevant issues/points identifie nation of why issues/points are considered relevant fic examples/evidence used to support conclusions	ed	(0-3) (0-3) (0-2)	[8]
				[Total: 20]		

	Page 4		wark Scheme	Syllabus	Paper	
			GCE AS/A LEVEL – October/November 2012	9705	11	
5	(a)	Appropri	ate explanation related to lifting chair		(0–2)	[2]
	(b)	Problem e.g. relat	1 described 2 described ed to not being able to stack chair because of bottom cr wider than seat therefore will not fit over seat of another		(0–2) (0–2)	[4]
	(c)	Explanat	ion of how problem 1 could be overcome ion of how problem 2 could be overcome ove bottom rail, splay (angle) legs, make seat smaller		(0-3) (0-3)	[6]
	(d)	Explanat	has been analysed and relevant issues/points identified ion of why issues/points are considered relevant examples/evidence used to support conclusions	I	(0-3) (0-3) (0-2)	[8]
				[Total:	: 20]	
8	(a)		ate explanation related to safety symbol used to indicate able substance/material	e an	(0–2)	[2]
	(b)	Problem e.g. relat	1 described 2 described ed to safety issues such as not wearing a mask and wo rentilated room (closed window)	rking	(0–2) (0–2)	[4]
	(c)	Explanat e.g. show	ion of how problem 1 could be overcome ion of how problem 2 could be overcome ving window open, spray booth or extraction system beings used	ng	(0-3) (0-3)	[6]
	(d)	Explanat	has been analysed and relevant issues/points identified ion of why issues/points are considered relevant examples/evidence used to support conclusions	i	(0-3) (0-3) (0-2) [Total:	[8] : 20]

Mark Scheme

Syllabus

Paper

Page 4

Pa	ge 5	Mark Scheme	Syllabus	Pape	r
·		GCE AS/A LEVEL – October/November 2012	9705	11	
(a)	One pre-	conceived idea presented		(0-4)	
	The development and selection of a range of ideas into a single design proposal which would appear to work but lacks some technical detail OR			(5–8)	
	The developroposal solution of Clarity and	elopment and selection of a range of ideas into a single that includes sufficient technical detail to show that the would clearly work and quality of sketching and explanatory notes on (reasons for selection)		(9–12) (0–4) (0–4)	[20]
(b)	As for pa	art (a)			[20]
(c)	As for pa	art (a)			[20]
(d)		ving wilt exhibit a reasonable standard of outcome and squired design features	show some	(0–5)	
	The draw	ving will exhibit a good standard of outcome and show neatures required to make the product function as intende		(6–9)	
	The draw	ving will be completed to a high standard of outcome an In features required to make the product function as inte		(10–14)	
	Some us drawing OR	e made of colour and tone to enhance the visual impac	t of the	(0–2)	
	Good use of the dra	e has been made of colour and tone to enhance the viso awing	ual impact	(3–4)	
	Very goo	d use has been made of colour, tone and material repretented the visual impact of the drawing	esentation to	(5–6)	[20]
					: 80]

Questions 8 and 9 as for Question 7

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