MARK SCHEME for the October/November 2008 question paper

9705 DESIGN AND TECHNOLOGY

9705/03

Paper 3 (Written 2), 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.



UNIVERSITY of CAMBRIDGE International Examinations

	Pag	e 2	Mar	k Scheme	Syllabus	Paper
		-		- October/November 2008		03
Se	ction	ηA				
Pa	rt A –	- Prod	uct Design			
1	(a)	- full - sor	iption of process y detailed ne detail y of sketches	3–5 0–2 up to 2	7 x 2	[14]
	(b)	- sin - ea - ac die ca - go - tex - wa - sin lamin - lov	od finish ktured iste can be re-used nple shape, easy to rem	n letter/number ove from mould		
		- str	ong, can support weight sily repeated	t	3 x 2	[6] [Total: 20]
2	(a)	- alu - acu - spu - ply reaso - tak - att	opriate material including iminium rylic or more flexible plat ecific hardwood or softw wood/mdf ons including: kes a good finish/easy to ractive le to flex	stic /ood o form/join	1 2 x 1	[3]
	(b)	- ap - sha - be qualit - ful	iption to include: propriate method aping, joining nding y of description: ly detailed me detail	3-6 0-2		
			y of sketches	up to 2		[8]

Pa	age 3	N	/ark Scheme	Syllabus	Paper
		GCE A/AS LEVE	L – October/November 2008	9705	03
(4	c) expla - cl - cl - us - us				
	- lo	ity of explanation: gical, structured nited detail	4–7 0–3		
	qual	ity of sketches	up to 2		[9] [Total: 20]
	2 D mode example	els could be: template/pro	ofile/specific project 1		
	ompute example				
	D mock example				
	caled prexample	or to production			
q	logic	f explanation al, fully detailed ed detail	3–4 0–2 4	x 5	
					[Total: 20]
Part E	3 – Prac	ctical Design			
4 (a	a) rotar clea clea	[1] [3] [1]			
(I	b) recip clear clear	[1] [3] [1]			
(4	 (c) oscillating motion clear sketch indicating correct method of achieving motion clear labelling 				[1] [3] [1]
(0	clea	procating motion (acce r sketch indicating corr r labelling	pt linear) rect method of achieving motion	I	[1] [3] [1]
					[Total: 20]

	Page 4	Mark Scheme	Syllabus	Paper	
		GCE A/AS LEVEL – October/November 2008	9705	03	
5	wood to w	and (interior use)			
5		ood (interior use) Resin W			[1]
	,	priate example			[1]
		leaned			
		d with brush/applicator			
		vith clamps min 30 mins			
		clear excess			101
	tuli de	escription including most of features above			[3]
	wood to w	ood (exterior use)			
		exterior use, Cascamite			[1]
		priate example			[1]
		cleaned, glue mixed			
		d with brush/applicator vith clamps min 2 hours			
		clear excess/ensure no gaps/avoid skin contact			
		scription including most of features above			[3]
					[•]
	metal to m				F 4 1
		r resin, araldite			[1]
		priate example cleaned/ degreased, glue mixed			[1]
		d with brush/applicator			
		or 4 – 6 hours			
	wipe o	clear excess/avoid skin contact			
	full de	scription including most of features above			[3]
	plastic to p	blastic			
		I cement, PVC weld			[1]
	appro	priate example			[1]
		cleaned, glue mixed			
		d with brush/applicator			
		or min 30 mins			
		skin/eye contact/well ventilated area			[3]
	iun ue	scription including most of realtiles above			[9]
	plastic to v				
	•	t adhesive/hot glue gun			[1]
		priate example cleaned,			[1]
		d with brush/applicator			
		e accurate positioning/immediate contact			
		skin contact/heat/fumes			
	full de	scription including most of features above			[3]
				15	v /1
				[5	x 4]
				[Total	: 20]

	Page 5		5 Mark Scheme		Syllabus	Paper	
			GCE A/AS LEVEL – O	ctober/November 2008	9705	03	
6	(a)		ness – resistance to sudde ity – ability to be drawn into			[2] [2]	
	(b)		naterial example			[1] [1]	
		• •	naterial example			[1] [1]	
	(c)	fu	ription of impact testing sys ully detailed 3–4 mited detail 0–2	tem		[4]	
	(d)	n n b	ssion could include: nanufacturing possibilities new materials proader product possibilities apid production to meet ma				
		q	ssues raised juality of discussion examples introduced	3 3 2		[8] [Total: 20]	
Pa	rt C –	Grap	hic Products				
7		ail - d - b - b - w - d	anometric/quality/scale loor/walls oed bedside unit vardrobe lesk ink unit			[4] [2] [3] [2] [3] [3] [3]	
						[Total: 20]	
8	(a)	- han - inter - face	rsection handle/head	2 2 4 2		[10]	
	(b)		head ect construction pe/accuracy	4 3		[7]	
			le struction pe/accuracy	1 2		[3]	

Page 6	Mark Scheme		Syllabus	Paper	
	GCE A/AS LEVEL – October/November 2008		9705	03	
- fully	detailed	3–4			
- limit	ed detail	0–2			
clarity	/efficiency of instruction of outline	3			
		3			
				[2 x 1	0]
	draft o under - fully - limite clarity	5	GCE A/AS LEVEL – October/November 2008 draft outline: understanding of topic - fully detailed 3–4 - limited detail 0–2 clarity/efficiency of instruction of outline 3	GCE A/AS LEVEL – October/November 2008 9705 draft outline: understanding of topic - fully detailed 3–4 - limited detail 0–2 clarity/efficiency of instruction of outline 3	GCE A/AS LEVEL – October/November 2008 9705 03 draft outline: understanding of topic - - fully detailed 3–4 - - limited detail 0–2 - clarity/efficiency of instruction of outline 3

[Total: 20]