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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2006 question paper

0445 DESIGN AND TECHNOLOGY

0445/02 Paper 2, maximum raw mark 60

This mark scheme is published as an aid to teachers and students, 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.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 2	Mark Scheme			Syllaba	per
			IGCSE - OCT/NOV 2006		0445	March
				Breakdown of marks	Marks on script	ambridge
1.	(a) sides 40:	x160 (2x1)		2	·	00
		tre (1) arc (1)		2		.60.
	Centre li	ne @ 80		1		773
	R200 cei	ntre		1		
	R200 ard			1		
	R60 cent	tre		1		

1.	(a)	R40	tre 1 1 1 1		Marks on script
		Sen con:	ni ellipse struction (3) orientation (1) quality (1)	3+1+1	5
	(b)	(i)	Hex 80 side Hex 60 side concentric alignment position above peak	2 2 1	6
		(ii)	guidelines for letters (2x1) spacing (0-2) suitable size (0-2)	2 2 2	6
	(c)		able cross halving cut or slot and tab (0-2) length positions	2	330
2.	(a)		sion by construction icals 85 spacing +/-1mm (1)	2 1	3
	(b)	(i)	70 x 90 (1) + R17 (1) Ø26 circle (2) body (1) Ø12 circle (2) Shoulder curve (1) arm (2) angle(1) Steering wheel (2) shaft (1) angle (1)	2 5 4 4	15
		(ii)	position (1) spacing (1)	2	2
	(c)	(i)	suitable chart/graph for types (0-2) data represented correctly (0-2)	4	4
		(ii)	suitable chart/graph for rent periods (0-2) data represented correctly (0-2)	4	4
	(d)	tab	(0-2) slot (1)	2	30

	Page 3			Mark So	Syllabu	
				IGCSE - OCT/NOV 2006		0445
						Syllabu A.
3.	(a)	(i)	heigl	nt 140	1	OH.
	` '	` '	_	60 long	1	· Ox.
				0 deep	1	10%
				panel 80 wide	1	3
				panel R20	1	
				m 10 deep	1	
				oosition (2x1)	2	
				on lines on top	1	
				on lines on bottom	1	
				on lines on rod (2x1)	2	12
				(=///)	_	
		(ii)	width	n 60	1	
		(,		rebates in top (2x1)	2	
				rebates in bottom (2x1)	2	
				thickness	1	
				osition	1	
				hickness	1	8
			100 1	THORITOGO	•	ŭ
		(iii)	SQ 6	60 (1+1)	2	
		(,		circle	1	
				inside circle	1	
				to left of top	1	
				en detail of rods in sides (2x1)	2	
				panel showing beyond top	1	8
			Olde	parier showing beyond top	'	ŭ
	(h)	mat	ch to	projection	1	
	(6)		ect sy		1	2
		COII	CCI 3y	TIBOI	'	30
						30
4.	(a)	ดเเล	lity ∩f	sketching (0-2)	2	
٠.	(u)			representing the company (0-2)	2	4
		tvvO	lucas	representing the company (0-2)	2	-
	(h)	rem	aininc	sides drawn accurately (6x1)	6	
	(D)			p 43 +/- 2mm (0-2)	2	
			_	. ,		
			flaps	(4x1)	4 4	16
		ioiu	парѕ	(4X I)	4	10
	(0)	noc	ition f	or logo on correct face	1	
	(c)			or logo on correct face	1	
				riew correct orientation	1	2
		арр	ioxim	ate size to fit space	1	3
	(حا/	00.5	oot le	action/workable solution (4.2.)	2	
	(d)			cation/workable solution (1-2)	2	4
		ιWΟ	part j	oint (1-2)	2	4
	(6)	auc	lity of	randaring (12)	2	2
	(e)	qua	iily Of	rendering (1-3)	3	<u>3</u> 30
						31.1