UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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## 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.

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	ge 2		Mark Scheme	
		IGCSE - OCT/NOV 2	2006	044
			Breakdown of marks	Marks on script
(a)		es 40x160 (2x1) ) centre (1) arc (1)	2 2	
	Centre line @ 80		1	
		00 centre 10 arc	1	
		) centre	1	
		) arc	1	40
	Wid	th 280	1	10
		ni ellipse		
		struction (3) orientation (1) quality (1)	3+1+1	5
(b)	(i)	Hex 80 side	2	
	-	Hex 60 side	2	
		concentric alignment position above peak	1	6
				Ũ
	(ii)	guidelines for letters (2x1)	2	
		spacing (0-2) suitable size (0-2)	2 2	6
(-)			0	
(C)	suitable cross halving cut or slot and tab (0-2) two length positions		2 1	3
				30
(a)		sion by construction	2	
	vert	icals 85 spacing +/-1mm (1)	1	3
(b)	(i)	70 x 90 (1) + R17 (1)	2	
		Ø26 circle (2) body (1) Ø12 circle (2)	5	
		Shoulder curve (1) arm (2) angle(1) Steering wheel (2) shaft (1) angle (1)	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
		(0-2) slot (1)	2	2

Pa	ige 3		Mark Scheme	
		IGCSE - OCT/NOV	2006	Syllabt O445
(a)	(i)	height 140	1	- an
(a)	(י)	top 60 long	1	76.
		top 10 deep	1	10
		side panel 80 wide	1	3
		side panel R20	1	
		bottom 10 deep	1	
		rod position (2x1)	2	
		section lines on top	1	
		section lines on bottom	1	
		section lines on rod (2x1)	2	12
	(ii)		1	
		two rebates in top (2x1)	2	
		two rebates in bottom (2x1)	2	
		side thickness	1	
		rod position	1	
		rod thickness	1	8
	(iii)	SQ 60 (1+1)	2	
		Ø 30 circle	1	
		Rod inside circle	1	
		Rod to left of top	1	
		Hidden detail of rods in sides (2x1)	2	0
		Side panel showing beyond top	1	8
(b)		ch to projection	1	2
	COL	rect symbol	1	<u>2</u>
				00
(a)	qua	lity of sketching (0-2)	2	
. ,		ideas representing the company (0-2)	2	4
<i>(</i> L.)			0	
(b)		aining sides drawn accurately (6x1)	6	
		bing top 43 +/- 2mm (0-2)	2	
		e flaps (4x1)	4	16
	IOID	flaps (4x1)	4	10
(c)		ition for logo on correct face	1	
		ering/view correct orientation	1	2
	арр	roximate size to fit space	1	3
(d)	corr	ect location/workable solution (1-2)	2	
		part joint(1-2)	2	4
(e)	gua	lity of rendering(1-3)	3	3
			-	30