UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

7048 CDT: DESIGN AND COMMUNICATION

7048/01 Paper 1, maximum raw mark 80

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.

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Pa	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper	
			GCE O LEVEL – October/November 2010 704		01	
(a)	(i)	Base Base Orie	narks for 2D e length (irrespective of orientation) to overlay e depth (irrespective of orientation) to overlay ntation (base length to left)		1 1 1	[3]
		Heig Wall Over	equare corner posts tht of best post (to overlay) set in from corner post rall height of wall (to overlay) ance gap		1 1 1 1 1	[2]
		Wall	thickness to overlay ning track attempted		1	[4]
			tical corner evident (or hole in roof 1 mark only)		1	[2]
						[11]
	(ii)	Thic	evidence of thick outline on any correct position k line applied to most outer edges k lines applied to one corner post correctly		1 1 1	[3]
			The separation of the second poor seconds.		·	[3]
(b)	(i)	Majo Mino Ellips Corre	se centre in correct position or axis 80 mm or axis 50 mm se – some evidence of construction ect construction le of ellipse correct to candidate solution		1 1 1 1 1	[6]
	(ii)		word 'WELCOME' added word 'WELCOME' consistent in height or central to sp	ace	1 1	[2]
						[8]
(c)			two geometrical shapes evident (one shape = 0)		1	
			vident ains three shapes and 'P' combined		1 1	[3]
						[3]
(d)	(i)	Horiz	gn added zontal lines angled – verticals remain upright		1	101
			res distorted		1	[3]
	(ii)		ding makes the pole look cylindrical ding makes the top look spherical		1 1	[2]
						[5]
						[30]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper	
			GCE O LEVEL – October/November 2010	7048	01	
2		Heig Roof Thre Roof	h of end view-seating area (to overlay) ht to roof angle (to overlay) angle 60° e equal 'steps' (to overlay) support ertising board triangle (width and height)		1 1 1 1 1	[6]
		Widt Edge Adve (to o	ht of stand projected from End view h of stand (to overlay) e of steps projected ertising board projected verlay or candidate solution in (i)) f projected to candidate solution in (i)		1 1 1 1	[5]
	` ,	Dept Roof	h of stand projected to candidate solution th of stand projected to candidate solution projected to candidate solution ertising board projected to candidate solution		1 1 1	[4] [15]
	(b)	Fold Seco	t and base completed (size to overlay) line extended (long chain) and triangular end in position (45° or not) and glue tab in appropriate positions and locating tab in position to candidate solution		1 1 1 1	[5]
	(c)	'ZIN	fruit shapes evident G' evident bes and 'ZING' combined		1 1 1	[3]
	(d) (i)	Triar	ertising board aligned to VP1 and VP2 ngular shaped end completed e shown beyond triangle and aligned to VP2		1 1 1	[3]
	(ii)		gn added gn added in perspective		1 1	[2]
	(iii)	-	colour added ur added in a way that enhances the illustration		1 1	[2]
						[30]

	Page 4	Mark Scheme: Teachers' version	Syllabus	Paper	
		GCE O LEVEL – October/November 2010	7048	01	
3	Hei Thr Thr Thr Any Thr Thr	igth of rectangle (148 mm to 152 mm) ght of rectangle (103 mm to 107 mm) ee equal divisions (49 mm plus or minus 2 mm) ee equal size squares ee squares to overlay three equal size circles ee circles correct size ee circles in correct position		1 1 1 1 1 1	[3] [5]
		[,] 'Stripe' at 45 degrees pe 30 mm wide (to overlay)		1 1	[2]
	Ser	ni-circle in correct position		1	
	Ser	ni-circle correct to overlay or candidate solution		1	[2]
					[12]
	Stri Fold Cut Sta Stri 90 d	ge 1 p of acrylic shown (could be 2D) ds shown by a dashed line s for base shown by a solid line ge 2 p of acrylic shown in 3D degree fold shown s for base clearly visible		1 1 1 1 1	[3] [3]
	Thio 3D in a 3D in a	sketch of square base ckness of square base evident sketch of triangle ppropriate position above base sketch of two pegs ppropriate position between base and triangle o holes shown in triangle or base		1 1 1 1 1 1	[7]
					[25]

	Page 5		Mark Scheme: Teachers' version Syllabus		Paper	•
			GCE O LEVEL – October/November 2010 7048			
4	(a)	Move Colla At le At le	shown moving from up to down position (arc) ement of arm shown in at least 4 positions ar shown at end position on the pole east 4 positions of collar and strut shown ast 4 points plotted for P led points joined with a smooth curve to candidate solu	tion	1 1 1 1 1	[6]
						[6]
	(b) (i)		orial pole shown orial collar shown on pole		1 1	
		Picto	orial pin shown that locates in hole on the pole		1	[3]
						[3]
	(ii)	Sect Pin s	ion of pole shown ion of collar shown shown		1 1 1	
			shown in position ropriate hatching (ignore pin)		1 1	[5]
						[5]
	(c)		able colour selected for pole (brown/yellow)		1 1	
		Woo	ding makes pole look round in shape od grain shown on pole		1	
			able colour selected for end cap (yellow) ding makes end cap look round in shape		1 1	
			ding makes end cap look shiny		1	[6]
						[6]
	(d)		om circle drawn Ø40 circle drawn Ø30		1 1	
		Inne	r hole indicated (any size)		1	
			ing sides ical height 25 (between centre lines)		1 1	[5]
						[5]
						[25]
						[2]

	Page 6		Mark Scheme: Teachers' version	Syllabus	Paper	
			GCE O LEVEL – October/November 2010 7048		01	
5	(a)	All a Lette The The Deci Feed Con	remaining five/six stages shown in a flow chart dded stages in the correct order (as given) ering legible and clear three different flow chart symbols used anywhere three different flow chart symbols used correctly sion box has Yes and No dback loop incorporated correctly necting lines (between boxes) ws used on all lines		1 1 1 1 1 1 1	[9]
						[9]
	(b) (i)	Botto	tic cup drawn on flat surface om and top circles of different sizes s to cup shown		1 1 1	[3]
	(ii)		ropriate size hole shown in tray th of tray shown		1 1	[2]
	(iii)	Cup	circle drawn passes through the tray (circular top lower than plastic re shown where cup touches the tray	cup top)	1 1 1	[3] [8]
	(c) (i)	ldea Idea	Logo with images not words shows cup/s must be placed in bin shows the two different cups shows the two cups must be placed in different bins		1 1 1	[4]
	(ii)	Appr	o added to given space ropriate size lity of presentation – good 1, excellent 2		1 1 2	[4]
						[25]

	Page 7		Mark Scheme: Teachers' version	Syllabus	Paper	•
			GCE O LEVEL – October/November 2010	7048	01	
6	(a)	Bord	ler correctly added to the two remaining signs (2 \times 1 m	ark)	1 1	
			words Eagles and Sharks added in appropriate positio	ns to each of the		
		signs			1	
			ds Eagles or Sharks consistent with 'Lions' e image added to sign		1 1	
			d quality image of eagle added to sign		1	
		Shar	k image added to sign		1	
		Goo	d quality image of shark added to sign		1	[8]
						[8]
	(b)		e divided into any three sectors		1	
			s 120° correct size –		1	
			and 80 degrees (slightly less than 90° BOD) ors coloured (any colour)		1 1	
			rent colour used to identify each of the sectors		1	
		Colo	ur applied with quality		1	
			image evident on the pie chart	otrotion	1	[0]
		I WO	three images used on the pie chart to enhance the illu	stration	1	[8]
						[8]
	(c)		s data used (Lions team 6, 10, 2)		1	
			er chart		1	
			able scale selected (10 equal spaces) e labelled (number of places)		1 1	
		1 st , 2	^{2nd} and 3 rd places as bars correctly plotted 3 × 1		3	
		Bars	identified as 1 st , 2 nd , and 3 rd		1	
		Bar	chart uses a lion image/word in some way		1	[9]
						[9]
						[25]