MARK SCHEME for the October/November 2010 question paper

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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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UNIVERSITY of CAMBRIDGE International Examinations

Page 2		yllabus	Paper
	GCE O LEVEL – October/November 2010	7048	01
B B O S H W	o marks for 2D ase length (irrespective of orientation) to overlay ase depth (irrespective of orientation) to overlay rientation (base length to left) ix square corner posts eight of best post (to overlay) Vall set in from corner post		1 1 1 [3] 1 1 [2] 1
E W	verall height of wall (to overlay) ntrance gap /all thickness to overlay unning track attempted		1 1 1 [4] 1
E	lliptical corner evident (or hole in roof 1 mark only)		1 [2] [11]
Ť	ny evidence of thick outline on any correct position nick line applied to most outer edges nick lines applied to one corner post correctly		1 1 1 [3] [3]
M M E C	llipse centre in correct position ajor axis 80mm inor axis 50mm llipse – some evidence of construction orrect construction rofile of ellipse correct to candidate solution		1 1 1 1 1 1 1 [6]
• • •	ne word 'WELCOME' added ne word 'WELCOME' consistent in height or central to space		1 1 [2] [8]
'F	in two geometrical shapes evident (one shape = 0) ' evident ontains three shapes and 'P' combined		1 1 1 [3] [3]
H	esign added orizontal lines angled – verticals remain upright urves distorted		1 1 1 [3]
• •	hading makes the pole look cylindrical hading makes the top look spherical		1 1 [2]
			[5]
			[30]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Pape	r
			GCE O LEVEL – October/November 2010	7048	01	
2		Heigl Roof Three Roof	n of end view-seating area (to overlay) ht to roof angle (to overlay) angle 60° e equal 'steps' (to overlay) support rtising board triangle (width and height)		1 1 1 1 1	[6]
	(ii) Front	Width Edge Adve (to ov	ht of stand projected from End view n of stand (to overlay) e of steps projected rtising board projected verlay or candidate solution in (i) projected to candidate solution in (i)		1 1 1 1	[5]
	(iii) Plan	Dept Roof	n of stand projected to candidate solution h of stand projected to candidate solution projected to candidate solution rtising board projected to candidate solution		1 1 1	[4] [15]
	(b)	Fold Seco Seco	t and base completed (size to overlay) line extended (long chain) nd triangular end in position (45° or not) nd glue tab in appropriate positions nd locating tab in position to candidate solution		1 1 1 1	[5] [5]
	(c)	'ZINC	fruit shapes evident G' evident les and 'ZING' combined		1 1 1	[3] [3]
	(d) (i)	Trian	rtising board aligned to VP1 and VP2 gular shaped end completed 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]
						[7]
						[30]

	Page 4	Mark Scheme: Teachers' version	Syllabus	Pape	r
		GCE O LEVEL – October/November 2010	7048	01	
3	He Tr Tr Tr Tr Ar	ngth of rectangle (148 mm to 152 mm) eight of rectangle (103 mm to 107 mm) ree equal divisions (49 mm plus or minus 2 mm) ree equal size squares ree squares to overlay ny three equal size circles ree circles correct size		1 1 1 1 1 1	[3]
	Tł	ree circles in correct position		1	[5]
	St	ny 'Stripe' at 45 degrees ripe 30 mm wide (to overlay) emi-circle in correct position		1 1 1	[2]
		emi-circle correct to overlay or candidate solution		1	[2]
					[12]
	St Fc Ci	age 1 rip of acrylic shown (could be 2D) Ids shown by a dashed line Its for base shown by a solid line age 2		1 1 1	[3]
	St 90	rip of acrylic shown in 3D degree fold shown its for base clearly visible		1 1 1	[3]
					[6]
	Tr 3E in 3E in) sketch of square base iickness of square base evident) sketch of triangle appropriate position above base) sketch of two pegs appropriate position between base and triangle		1 1 1 1 1	
	Τv	vo holes shown in triangle or base		1	[7]
					[7]
					[25]

Page		age 5		Mark Scheme: Teachers' version	Syllabus	Pape	r
				GCE O LEVEL – October/November 2010	7048	01	
4	(a)		Move Colla 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 ast 4 positions of collar and strut shown ast 4 points plotted for P		1 1 1 1	
				ed points joined with a smooth curve to candidate solu	ition	1	[6]
							[6]
							[0]
	(b)	(i)	Picto	orial pole shown orial collar shown on pole orial pin shown that locates in hole on the pole		1 1 1	[3]
			1 1010			·	
							[3]
		(ii)	Sect Pin s	ion of pole shown ion of collar shown shown shown in position		1 1 1 1	
				opriate hatching (ignore pin)		1	[5]
							[5]
	(c)		Shac Woo Suita Shac	able colour selected for pole (brown/yellow) ding makes pole look round in shape d grain shown on pole able colour selected for end cap (yellow) ding makes end cap look round in shape ding makes end cap look shiny		1 1 1 1 1	[6]
							[6]
	(d)		Top Inner Slop	om circle drawn Ø40 circle drawn Ø30 r hole indicated (any size) ing sides cal height 25 (between centre lines)		1 1 1 1	[5]
							[5]
							[25]

	Page 6		Mark Scheme: Teachers' version	Syllabus	Pape	r
			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)		opriate 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] [4]
	(ii)	Appr	o added to given space ropriate size lity of presentation – good 1, excellent 2		1 1 2	[4] [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 $ imes$ 1 m	ark)	1 1	
		The signs	words Eagles and Sharks added in appropriate positio	ns to each of the	1	
		•	s ds Eagles or Sharks consistent with 'Lions'		1	
			e image added to sign		1	
		Goo	d quality image of eagle added to sign		1	
			k image added to sign		1	
		Goo	d quality image of shark added to sign		1	[8]
						[8]
	(b)	Circl	e divided into any three sectors		1	
			s 120° correct size –		1	
			and 80 degrees (slightly less than 90° BOD)		1	
			ors coloured (any colour) rent colour used to identify each of the sectors		1 1	
			ur applied with quality		1	
			image evident on the pie chart		1	
			/three images used on the pie chart to enhance the illu	stration	1	[8]
						[8]
	(c)	Lion	s data used (Lions team 6, 10, 2)		1	
			ar chart		1	
			able scale selected (10 equal spaces)		1	
			e labelled (number of places)		1	
		T ^a , Z Bare	^{2nd and 3rd places as bars correctly plotted 3 × 1 identified as 1st , 2nd, and 3rd}		3 1	
			chart uses a lion image/word in some way		1	[9]
						[9]
						[25]
						r=-1