UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the October/November 2008 question paper

7048 CDT: DESIGN AND COMMUNICATION

7048/01 Paper 1, maximum raw mark 100

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.

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1 (a) (i)	Mark to overlay Ignore the position of side view	•	
	Base width (100 mm)	1	
	Roof width (80 mm)	1	
	Apex in centre (any height)	1	
	Height to 'overhang' (70 mm from bottom)	1	
	Height to roofline (75 mm from bottom)	1	
	Height to apex (100 mm from bottom)	1	
	Leg width at base – 7 mm across (1 × 2)	2 2	[40]
	Leg width at top – 14 mm across at roofline (1 × 2)	2	[10]
(ii)	Mark to overlay Ignore position of plan		
	Award marks if correctly projected from incorrect side view		
	Square for roof (80 mm square or to candidate side view)	1	
	Cross (to overlay or candidate solution)	1	
	'Overhang' parallel to square (to overlay or candidate solution)	1	
	Four legs shown (to overlay or candidate solution)	1	
	Best leg – square base (1) and two tapered sides (1)	0	[0]
	(to overlay or candidate solution)	2	[6]
/ L\	90 mm h a a a	4	
(b)	80 mm base	1	
	Isosceles triangle (any size)	1	[2]
	Triangle correct to overlay (plus or minus 3 mm)	I	[3]
(c)	No marks for 2D drawings		
(0)	*could be awarded for other types of pictorial drawing		
	Upper rim of base correct to overlay	1	
	*Lower rim of base parallel to upper rim	1	
	*Depth of base correct (5 mm)	1	
	Base of tube correct size to overlay	1	
	Top of tube correct size to overlay	1	
	*Internal diameter of tube shown	1	
	*Height of upper circle above base (40 mm)	1	
	*Upper circle offset (15 mm)	1	
	* Evidence of construction – base (1) and tube (1)	2	[10]
(d)	Intersections - Top point (within 5 mm)	1	
	- Bottom point (ignore line)	1	
	- Curved line from top point to top edge of tube	1	
	Overall quality of enhancement		
	Good 2, satisfactory 1 or poor 0	2	[5]

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[Total: 34]

Syllabus

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Paper 01

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Page	3 Mark Scheme		Syllabus	Paper
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2 (a) (i)	i) Diving board Edge of pool shown Board shown		1 1	
	Ladde	er/frame shown	1	[3]
(ii)	Slide	height half diving board or indicated as 1000 mm shown er/frame shown	1 1 1	[3]
(b) (i)	Width Lengt Inner	sometric rectangle drawn of pool correct (60 mm) h of pool correct (100 mm) edge of shallow end correct to overlay (5 mm) ng side of pool correct to overlay (deep end 15 mm)	1 1 1 1	[5]
(ii)	Diving Diving Diving Overa	g board at the deep end g board matches design shown in (a) (i) g board correct height (8–10 mm) g board drawn in isometric all quality of drawing of the diving board 2, satisfactory 1 or poor 0	1 1 1 1	[6]
(iii)	Slide Slide Slide Slide Overa	at the shallow end matched design shown in (a) (ii) correct height (4–6 mm) drawn in isometric ill quality of drawing of the slide	1 1 1 1	
(c)	Pictog Idea/s	2, satisfactory 1 or poor 0 gram drawn s convey the message (no ball games) without the use appropriate ideas (1)	2 1 of words 1	[6]
(d)	Three Outer	or more appropriate ideas (2) – any hexagon drawn	1	[4]
	Inner Inner Colou Diago	 regular hexagon correct to overlay any hexagon drawn regular hexagon correct to overlay r evident nal line or cross includes ball 	1 1 1 1 1	[7]

Page 4		4	Mark Scheme	Syllabus	Paper	
			GCE O LEVEL – October/November 2008	7048	01	
3	(a)	Circle drawn (any size) Three divisions of circle Correct division of circle (1 part = 1 mark or 2 parts = 2 marks) S – 60, C – 170 & B – 130 Colour used Three different colours used Three appropriate colours used (pink, brown and yellow)		1 1 2 1 1	[7]	
	(b)	The the *acce *Frida *Saturation over Colour Any two	ing of cone used in pictograph hree days clearly indicated pt accurate alternatives such as top down or sideways ay marked to overlay (triangle) rday marked to overlay (triangle and semi-circle) *Sund erlay (triangle and circle) ar used wo colours used opriate colours used (cone and ice cream)		1 1 2 2 1 1 1 [1	0]
	(c) (i)	'Secre 'Ice cr Idea c	ge' shown (colour or shape or words) et' shown (drawing or words) ream' shown (drawing or words) on a card appropriate ideas (1) or three or more appropriate ideas	s (2)	1 1 1 1 2 [[6]
	(ii)	Missir Outlin Thickir One of Letter (2 good Image	c base rendered to look clear (2 good or 1 satisfactory) ng line added ne of card completed in isometric (2 sides & top) ness of card evident candidate idea added to the isometric ring in correct orientation (isometric) nd or 1 satisfactory) e(s) in correct orientation (isometric) od or 1 satisfactory))	2 1 1 1 1 2 2 [1	0]
					[Total: 3	3]
4	(a)	Outer Hexag Regul Hexag Any c Six cir Six cir Squar	circle (any size) circle correct to overlay gon (any size) lar hexagon with flat horizontal gon correct to overlay ircle at the corner of a hexagon rcles at the corners of a hexagon rcles of the correct size at each corner of a hexagon re in centre of drawing re correct to overlay		1 1 1 1 1 1 1 1 1	0]

Page 5		5	Mark Scheme	Syllabus	Paper	
i ago o		-	GCE O LEVEL – October/November 2008	7048	01	
Two Vert End Heig Ridg Left (c) (i) Top Botte		Two li Vertic End tr Heigh Ridge Left hat Top c Bottor Bottor	e lines to VP2 ines to VP1 (not roof) ial back corner riangle of roof added it of roof in proportion e of roof added with line to VP1 and edge of roof added (parallel to right side) urve added that blends in (accept freehand) m curves (accept freehand) – 1 × 2 m curve parallel to top	3 2 1 1 1 1 1 2	[10]	
			in vertical position (1) and lettering has thickness (1) E' starts (1) and finishes (1) in the correct positions	2	2 [8]	
	(ii)	yellow Overa	all colour scheme relates to the theme of sea and sun (v and 1 mark for blue) all quality of application of colour lent 3, good 2, satisfactory 1 or poor 0	1 mark for 2 3		
					[Total: 33]	
5	(a)	One n surface 8 work 6/7 wo 5/4 wo 2/3 wo Glue to Glue to Some	rill make a lid and base (10 surfaces) mark for each surface correct to overlay (move around to if necessary) kable glue tabs added 4 marks orkable glue tabs added 3 marks orkable glue tabs added 2 marks orkable glue tabs added 1 marks tabs of an appropriate width – 6 to 12mm (best one) tabs with angle ends (mark best one) – 1 × 2 or fold lines shown (1) or all fold lines shown using correctation (2)	4 1 2		
	(b)	Good Desig Exten Desig	all quality of sketches and notes (1 mark if only sketche 2, satisfactory 1 or poor 0 n proposal does not use pre-manufactured component sion 'tongue' on lid or base n proposals will hold box together n proposal will 'lock'			
	(c)	Excell Desig separ Suitab card a	all quality of sketches and notes (1 mark if only sketche lent 3, good 2, satisfactory 1 or poor 0 n proposal shows position of drink (1) and hot snack (1 ated in the box ble material named (foam board or corrugated card) D as it is given in the question od of holding divider in position clearly shown) clearly	2	

Page 6	Mark Scheme	Syllabus	Paper	
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6 (a)	Given centre lines used Some evidence of ellipse construction (1) or accurate method of ellipse construction (2) Ellipse the correct size (vertical and horizontal) – 1 × 2 Profile of ellipse accurate to overlay Vertical height of centre crown correct (25mm) above ellipse Centre triangle correct to overlay Height of apex projected either way (regardless of height) Two outer peaks correct to overlay – 1 × 2 Base correct width either side of centre line – 1 × 2 Base correct distance (10 mm) from ellipse	1 2 2 1 1 1 2 2 2	[15]
((b)	Appropriate colour used for wooden base (brown or yellow) Light, medium and dark surfaces shown Grain shown End grain shown Appropriate colour used for a stainless steel (grey or blue) Shiny surface shown Overall quality of illustration Good 2, satisfactory 1 or poor 0	1 1 1 1 1 1	[8]
((ii)	Speedboat shown (image or words) Areas to colour One idea (1 mark) or two or more ideas (2 marks) Design shown in the given box	1 1 2	[4]
	(**)	Design makes good use of space in the box One of candidate ideas shown Appropriate areas left blank for colouring Overall presentation of design proposal Good 2, satisfactory 1 or poor 0	1 1 1 2	[6]

[Total: 33]