Construction

Mark Scheme

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Shape, Space and Measures
Cula Tauria	Camakaniakian
Sub Topic	Construction

Time Allowed: 19 minutes

Score: /16

/100 Percentage:

Grade Boundaries:

A*	А	В	С	D	Е	U
>85%	75%	70%	60%	55%	50%	<50%

Question	Working	Answer	Marl	Notes
1.	Intersecting arcs from P ar Perpendicular bisector join			B1 arcs must intersect above and below line PQ B1 dep
				Total 2 marks
			1	
2.	Arcs of length 6cm from A and B			M1
	Arc of length 10 cm from A or B			M1
	Arc of length 6 cm from correct top vertex			MI
	Correct rhombus within overlay tolerance		4	A1 Dependent on M3 sc B1 for correct rhombus with no construction lines.
				Total 4 marks
3.	arc centre B cutting BA and BC			
	arcs centres P and Q of equal radii which is	ntersect at R (say) R joined (overlay)		A1 dep
	und Div	r joined (overlay)	'	Total 2 marks
4.	Circular arc, centre <i>B</i> , to intersect both lines <i>AB</i> and <i>BC</i>	3		M1
	Equal length arcs, from intersections on each line, meeting to give a point on the bisector.	correct		A1 dep on M1 Full construction shown.
		bisector		Total 2 ma

Question	Working	Answer	Mark	Notes
5.	One bearing line at 260° (± 2°) or one 9.6 cm line (± 2mm) from A			M1
		Intersection of 2 lines in boundary of overlay		A1 Condone omission of <i>D</i> label Correct position of <i>D</i> within tolerance without any lines scores M1A1.
				Total 2 marks

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Question	Working	Mark		Notes
6.	Arc centre B cutting BA and BC at P and Q where		M1	for all relevant arcs (those drawn from P and Q may
	BP = BQ and arcs drawn from P and Q			fall outside guidelines)
	correct bisector	2	A1	for angle bisector in guidelines with all necessary
				arcs
				Total 2 marks

7.	bisector with construction arcs	2	B2 for bisector within guidelines with two pairs of relevant construction arcs seen
			If not B2 then B1 for a bisector within guidelines with no arcs present or relevant arcs present with no bisector
			Total 2 marks