

EDEXCEL DECISION MATHEMATICS D1 (6689) – JANUARY 2013 FINAL MARK SCHEME

Question Number	Scheme	Marks																				
1 (a)	<table><tr><th>N</th><th>E</th><th>R</th><th>Qn</th></tr><tr><td>72</td><td>8</td><td>8.5</td><td>N</td></tr><tr><td></td><td>8.5</td><td>8.485 294 118</td><td>N</td></tr><tr><td></td><td>8.485 294 118</td><td>8.485 281 374</td><td>N</td></tr><tr><td></td><td>8.485 281 374</td><td>8.485 281 374</td><td>Y</td></tr></table>	N	E	R	Qn	72	8	8.5	N		8.5	8.485 294 118	N		8.485 294 118	8.485 281 374	N		8.485 281 374	8.485 281 374	Y	M1 A1
	N	E	R	Qn																		
	72	8	8.5	N																		
		8.5	8.485 294 118	N																		
	8.485 294 118	8.485 281 374	N																			
	8.485 281 374	8.485 281 374	Y																			
	Output is R = 8.485 281 4	A1																				
		A1 (4)																				
(b)	We would get a negative output for R/ We would get the negative square root	B1 (1)																				
(c)	E cannot be zero	B1 (1)																				
		Total 6 marks																				
2 (a)	Pivot 1 = $\left\lceil \frac{1+26}{2} \right\rceil = \lceil 13.5 \rceil = 14$ letter N reject A – N	M1 A1																				
	Pivot 2 = $\left\lceil \frac{13+26}{2} \right\rceil = \lceil 20.5 \rceil = 21$ letter U reject U – Z																					
	Pivot 3 = $\left\lceil \frac{13+20}{2} \right\rceil = \lceil 17.5 \rceil = 18$ letter R reject R – T	A1																				
	Pivot 4 = $\left\lceil \frac{13+17}{2} \right\rceil = 16$ letter P – located	A1 (4)																				
(b)	E.g. The maximum number of letters at the start of each iteration is 26, 13, 6, 3, 1 So a maximum of 5 iterations is necessary	M1 A1 (2) Total 6 marks																				

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