## Non-Calculator

C = and d =   or c = and d =   (Total 3 marks				0.1				
or $c = \_\_\_$ and $d = \_\_\_$ (Total 3 marks)  Q2.  (a) Work out the value of $81^{\frac{1}{4}}$ ——————————————————————————————————			16 <i>c</i> =	2d				
or $c = \_\_\_$ and $d = \_\_\_$ (Total 3 marks)  Q2.  (a) Work out the value of $81^{\frac{1}{4}}$ ——————————————————————————————————								
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Q2.  (a) Work out the value of 81 4					or			
(a) Work out the value of 81 4					Oi	c =		
(a) Work out the value of 81 4								
(a) Work out the value of 81 <sup>4</sup>	22.			*4				
(b) Write 16 × 82x as a power of 2 in terms of x.	(2)			15.74				
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(b) Write 16 × 82x as a power of 2 in terms of x.	(a)	Work or	ut the value o	of 81 <sup>4</sup>				-
Answer	(a)	Work or	ut the value o	of 81 <sup>4</sup>				
	(a)	Work or	ut the value o	of 81 <sup>4</sup>				- - - - (2)
				of 81 <sup>4</sup> Answer				
				of 81 <sup>4</sup> Answer				
				of 81 <sup>4</sup> Answer				
Answer				of 81 <sup>4</sup> Answer				
				Answer	2 in terms o	f x.		

Q3.		2	
١	Work	64 <sup>3</sup>	out
-			
-		Answer	
		////SWC1	(Total 2 marks)
Q4.		_3	
(	(a)	Work out the value of $9^{\frac{3}{2}}$	
		Answer	
(	(b)	Work out all solutions of the equation	(3)
		$8^m = 2^{m^2}$	
		Answer	
			(3) (Total 6 marks)

Q5		1				
	Work	o•ut <sup>2</sup>	the	value		
			Answer		 (Total 2 n	narks)
Q6	(a)	Simplify fully m <sup>2</sup>				
						(1)
	(b)	Expand and simplify	$(3 + \sqrt{2})(5 - \sqrt{2})$			
						(2)
	(c)	Work out the value of	$25^{-\frac{1}{2}} \times 81^{\frac{3}{4}}$			
			Answer			(3)
					(Total 6 n	

Answer		mate the valu		.4½ 6.430 						
Answer										
Answer										
(Total 4 max) 3. (a) Circle the value of the reciprocal of 0.2 $ \frac{2}{10} \qquad \frac{1}{2} \qquad \frac{1}{20} \qquad 0.8 \qquad 5 $ (b) Circle the value of 8.50 $ 0 \qquad 1 \qquad 8.1 \qquad 8.5 $ (c) Work out $27^{\frac{1}{3}} \times 7^{-2}$										
(a) Circle the value of the reciprocal of 0.2 $\frac{2}{10} \qquad \frac{1}{2} \qquad \frac{1}{20} \qquad 0.8 \qquad 5$ (b) Circle the value of 8.50 $\qquad \qquad 0 \qquad \qquad 1 \qquad \qquad 8.1 \qquad \qquad 8.5$ (c) Work out $27^{\frac{1}{3}} \times 7^{-2}$				Answer _						
(b) Circle the value of 8.50 $0 \qquad 1 \qquad 8.1 \qquad 8.5$ (c) Work out $27^{\frac{1}{3}} \times 7^{-2}$		Circle the v	value of the re	ciprocal c	f 0.2					
0 1 8.1 8.5   (c) Work out $27^{\frac{1}{3}} \times 7^{-2}$		-	<u>2</u> 10	1/2	<u>1</u> 20		0.8		5	
0 1 8.1 8.5   (c) Work out $27^{\frac{1}{3}} \times 7^{-2}$	(h)	Circle the v	value of 8 50							
(c) Work out	(5)			1		8.1		8.5		
(c) Work out										
Give your answer as a fraction.	(c)	Work out	$27^{\frac{1}{3}} \times 7^{-2}$							
		Give	your	an	swer		as		a	fraction.
				Answer _						

Q9.	_
Work out	<sup>3</sup> √8 × 5−2

Give	your	answer	as	a	decimal.

Answer \_\_\_\_\_ (Total 3 mark)

Q10.

Circle the value of  $9^{-\frac{1}{2}}$ 

 $\frac{1}{81}$   $\frac{1}{3}$  -3  $-4\frac{1}{2}$ 

(Total 1 mark)

## <u>Calculator</u>

Q1	].	
	Given that $\frac{2^{3x}}{2^{(x-5)}} = 2^{17}$	
	Work out the value of $x$ .	
	x =	(Total 3 marks)
		(1000101110)
Q1	2.	
	Express $\sqrt[3]{x^2}$ in the form $xa$	
	Answer	 (Total 3 marks)