Name:	Subject: Mathematics	Class: 10 th	Time: 80 minutes	Total Marks:	30
Chapter No.01	M	JDexpert.com		Obtained marks	

Note: Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited. **Q.No.1 Choose the correct Answer.** $(6 \times 1 = 06)$

1. The name of the metho	od to derive quadratic formula is:		
a) Factorization	b) Completing Square	c) Zero Method	d) Fraction
2. The solution set of the	equation $5x^2 - 125 = 0$ is:		
a) {5}	b) {10}	c) {-5}	d) {±5}
3. The equation remains u	unchanged when x is replaced by	$r \frac{1}{x}$ is called:	
a) Quadratic Equation	b) Reciprocal Equation	c) Exponential Equation	d) Radical Equation
4. Two linear factors of x^2	$x^2 - 15x + 56$ are:		
a) $(x-7)(x-8)$	b) $(x-7)(x+8)$	c) $(x+7)(x-8)$	d) $(x+7)(x+8)$
	be $3^x - 3^{2x-6} - 6 = 0$ is a/an:		-1
a) Quadratic Equation	b) Reciprocal Equation	c) Exponential Equation	d) Radical Equation
6. If $y = 2^x$ and $8y = 1$ t			
a) 1	b) 3	c) -3	d) -1
<u>Q.No.2: Give the S</u>	hort Answers. $(8 \times 2 =$	<u>: 16)</u>	
i. Factorize to $3y^2=y(y-5)$			
ii. solve by Quadratic Forr	$\operatorname{mula}\sqrt{3} x^2 + x = 4\sqrt{3}$		
iii. Solve $\sqrt{3x + 18} = x$			
iv. Solve: $(2x - \frac{1}{2})^2 = \frac{9}{4}$			
v. Define reciprocal equat	tion.		
vi. Factorize $5x^2 = 15x$.			
vii. Define radical equation			
viii. Solve by completing sq	uare method $3x^2 + 7x = 0$.		
Q.No.3: Give the lo	ong answers. $(2 \times 4 = 0)$)8)	
(and a second se	YNALT	COM	

a) Simplify $x^4-2x^3-2x^2+2x+1=0$ a) Solve by completing square $x^2 - 2x - 195 = 0$.

<u>"Simplicity is the ultimate sophistication"</u>

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