CLASS - X , NCERT

CHAPTER	3.2	3.3	3.4	3.5	3.6	8.1	8.2	8.3	8.4
Q. NO	2,3,4,7	1,2	1	1,2,3	1	1-10	1,2,3	1-7	5

NOTE:- (I) Date of submission 18/06/2018

(ii) The students are advised to write the questions and solutions with two different colour ink, avoid red and green ink.

$$STD - IX, MATHS Assignment - 2018-19.$$

$$Exponents.$$

$$1.95 ab + bc + ca = 0, find value of  $\frac{1}{a^2-bc} + \frac{1}{b^2-ca} + \frac{1}{c^2-ab}$ 

$$2. Simplify: \Rightarrow (25)^{5/2} \times (729)^{5/2} \times (729)^{5/2} \times (27)^{2/3} \times 8^{4/3}$$

$$3.95(64)^{2x-5} = 4 \times 8^{x-5} \text{ find } x.$$

$$4. Prove that: \Rightarrow 5^{28} + 5^{27} + 5^{26} - 31 - 145$$

$$5.95 \cdot 95 \cdot 3^{5} = 5^{9} = (225)^{-\frac{1}{2}}, then show that \frac{2}{b} + \frac{2}{4^{3}} + \frac{1}{b} = 0.$$

$$6. Simplify: 3 \cdot 135 - 3 \cdot 192 + 3 \cdot 375 - 3 \cdot 3 + 3 \cdot 625.$$
Rationalitation
$$1.95 \cdot x = \frac{5-\sqrt{21}}{2} + then prove that \left(x^3 + \frac{1}{x^3}\right) - 5\left(x^2 + \frac{1}{x^2}\right) + \left(x + \frac{1}{x}\right) = 0$$

$$2. Express with a stational denominators: \frac{15}{\sqrt{10} + \sqrt{20} + \sqrt{40} - \sqrt{5} - \sqrt{80}}$$

$$3. Simplify: \Rightarrow \frac{7\sqrt{3}}{\sqrt{10} + \sqrt{3}} - \frac{2\sqrt{5}}{\sqrt{6} + \sqrt{5}} - \frac{3\sqrt{2}}{\sqrt{15} + 3\sqrt{2}}$$

$$4.95 \cdot \frac{7+3\sqrt{5}}{7-3\sqrt{5}} = \frac{2}{2} + \frac{5\sqrt{5}}{2} \text{ find a and } 6.$$

$$5.95 \cdot 95 \cdot a = 7 + \sqrt{40} \text{ find } \sqrt{a} + \frac{1}{\sqrt{a}}.$$

$$6. Rationalise the denominator: \frac{1}{\sqrt{5} + \sqrt{5}} - \frac{1}{\sqrt{5}}.$$

$$7.95 \cdot \sqrt{2} = 1.414, \sqrt{3} = 1.732 \text{ then find the value of } \frac{4}{3\sqrt{3} - 2\sqrt{2}} + \frac{3}{3\sqrt{3} + 2\sqrt{2}}.$$$$