**JESUS AND MARY SCHOOL AND COLLEGE**

**CLASS-8 ( MATHS )**

**CHAPTER NAME – EXPONENTS ( POWERS )**

**WORKSHEET-2**

Date: 11/05/2020

**Q.1- Choose the correct options:-**

 i) Find the value of $\left(2^{12}+6^{2}-5^{1}\right)^{0}$

 a) 0 b) -1 c) 1 d) None of these

 ii) Find the value of *x*, when $7^{5}=$ $\frac{1}{7^{x}}$ .

 a) 2 b) -5 c) 1 d) None of these

 iii) Find the value of x, when $2^{x}=4^{4}$.

 a) 6 b) 2 c) 8 d) -5

**Q.2-Simplify the following-**

 i) $(\frac{1}{2})^{-2}×(\frac{1}{2})^{-3}$ ii) $(\frac{4}{5})^{5}×(\frac{5}{6})^{5}$

**Q.3- Find the value of k if** $(-2)^{k+1}×(-2)^{3}=(-2)^{7}$**.**

**Q.4- Find the value of** $\left\{(-\frac{3}{4})^{-2}\right\}^{2}$**.**

**Q.5- Find the value of** $\left\{(216)^{\frac{2}{3}}\right\}^{\frac{1}{2}}$**.**

**Q.6- Find the value of p if** $(\frac{2}{5})^{3}×(\frac{2}{5})^{-6}=(\frac{2}{5})^{2p-1}$**.**

**Q.7- Prove that** $\left[\left(\frac{1}{2}\right)^{2}\right]^{3}×\left(\frac{1}{3}\right)^{-4}×3^{-2}×\frac{1}{2}×\frac{1}{3}=\frac{3}{128}$

**Q.8- State true or false:**

 i) $\left(10^{0}+12^{0}\right)\left(16^{0}+12^{0}\right)>8^{2}$ \_\_\_\_\_\_

 ii) $\left(3^{4}\right)^{2}=3^{8}$ \_\_\_\_\_\_

 iii) $\left(5^{2}\right)^{3}=100000$ \_\_\_\_\_\_

**Q.9- Find the value of** $x$ **in** $5^{2}+x^{2}=13^{2}$**.**

**Q.10- Find** $3^{3}+4^{3}+5^{3}$ **and give the answer in cube.**

**Note**- **Please do this assignment in your old copies. It will be checked when the school re-opens.**

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