ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Arithmetic **Class: 7** **Date: 25.04.20**

Duration: 40 min **Worksheet Solution 11** **Full Marks: 15**

EXPONENTS CONTINUED

Choose the Correct options:

1. What is the value of $(-1)^{-1}$?
I. 0
II. -1
III. 1
IV. None of these

2. Which of the following is the value of 'm' in $6^m / 6^{-3} = 6^5$?
I. -3
II. -2
III. 3
IV. 2

3. Which of the following is the standard form of 0.00001275?
I. $1.275 * 10^{-5}$
II. $1.275 * 10^5$
III. $127.5 * 10^{-7}$
IV. $127.5 * 10^7$

4. Which of the following is used as a form of $5.05 * 10^6$?
I. 505000
II. 505000000
III. 5050000
IV. 50500000

5. For which of the following is m= 8?
I. $(5^m \times 5^{-3}) / 5^2 = 5^3$
II. $-(5^m \times 5^{-3}) / 5^3 = 5^2$
III. $(5^m \times 5^3) / 5^2 = 5^3$
IV. $(5 \times 5^{-2}) / 5^2 = 5^3$

6. 1 micron = 1/1000000 m. which of the following is its standard form?
I. $1.1 * 10^{-5}$
II. $1.6 * 10^{-5}$
III. $0.1 * 10^{-6}$
IV. $1.0 * 10^{-6}$

7. $[(1 / 2)^{-1} + (2 /3)^2 - (3/4)^0]^{-2}$ is equal to:
I. 81/484
II. 81/169
III. 169/81
IV. 16/81

8. Which of the following = $(100 - 99^0) * 100$?
I. 10000
II. 100
III. 9900
IV. 99000

9. What is the reciprocal of $(-3 / 4)^0$?
I. -1
II. 1
III. -4/3
IV. 4/3

10. Which of the following is the value of $(4 / 5)^{-9} / (4 / 5)^{-9}$?
I. $(4/5)^{18}$
II. 4/5
III. 1

IV. $(5/4)^9$

11. According to exponent rules, when we divide powers we _____ the exponents.
    I. add
    II. subtract
    III. multiply
    IV. divide
12. According to exponent rules, when we raise a power to a power we _____ the exponents.
    I. add
    II. subtract
    III. multiply
    IV. divide
13. $5x^3.2x^2$
    I. $10x^5$
    II. 3x
    III. $10x^6$
    IV. $7x^5$
14. $(2^8)^2$
    I. 2^{16}
    II. 2^{10}
    III. 2^6
    IV. 2^4
15. $(2x^3y)^6$
    I. $2x^{18}y^6$
    II. $64x^{18}y^6$
    III. $64x^3y^6$
    IV. $2x^3y^6$