Sub: Arithmetic   **Class: 7**   **Date: 25.04.20**
Duration: 40 min   **Worksheet 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. $2x^3y^6$

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