



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra& GeometryWork sheet2

Marks:15Exponents

Date:18.1.2021

Answer all the following questions(1×15=15)

1.The value of 2^{-2} is:

- A. 4
- B. $\frac{1}{4}$
- C. 2
- D. $\frac{1}{2}$

2. $2^2 \times 2^3 \times 2^4$ is equal to:

- A. 2^{24}
- B. 2^{-5}
- C. 2^9
- D. 2^{-9}

3. $3^{-2} \times 3^{-5}$ is equal to:

- A. 3^{-7}
- B. 3^{-3}
- C. 3^{-10}
- D. 3^7

4. $5^4/5^2$ is equal to:

- A. 5^6
- B. 5^{-6}
- C. 5^{-2}
- D. 5^2

5.The value of $(3^4)^3$ is:

- A. 3
- B. 3^{12}
- C. 3^7
- D. None of the above

6. $3^2 \times 4^2$ is equal to:

- A. 121

B. 49

C. 144

D. 156

$7.5^7/6^7$ will give the value:

A. $(5/6)^7$

B. $(5/6)^0$

C. $(5/6)^{-7}$

D. $(6/5)^{-7}$

8. $100^0+20^0+5^0$ is equal to

A. 125

B. 25

C. 1/125

D. 3

9. If $(-3)^{m+1} \times (-3)^5 = (-3)^7$, then the value of m is:

A. 5

B. 7

C. 1

D. 3

10. What is the value of $(-1)^{-1}$?

A. 0

B. -1

C. 1

D. None of these

11. Which of the following is the value of 'm' in $6^m/6^{-3} = 6^5$?

A. -3

B. -2

C. 3

D. 2

12. Which of the following = $(100 - 99^0) \times 100$?

A. 10000

B. 100

C. 9900

D. 99000

13. What is the reciprocal of $(-3/4)^0$?

A. -1

B. 1

C. -4/3

D. 4/3

14. Which of the following is the value of $(4/5)^{-9} / (4/5)^{-9}$?

A. $(4/5)^{18}$

B. $4/5$

C. 1

D. $(5/4)^9$

15. $[(1/2)^{-1} + (2/3)^2 - (3/4)^0]^{-2}$ is equal to:

A. $81/484$

B. $81/169$

C. $169/81$

D. $16/81$

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