



spardhaguru2022



Spardhaguru Current affairs



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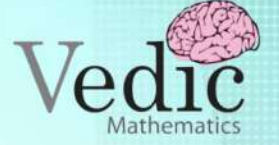
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1) Find the value of $(256 \times 4096)/(400 \times 125 \times 64)$
= ?

- a) $7^5/8^7$ b) $8^5/6^7$
c) $4^5/5^5$ d) $7^5/6^7$

2) $(17)^{3.5} \times (17)^? = 17^8$

- a) 2.29 b) 2.75
c) 4.25 d) 4.5

3) Given that $10^{0.48} = x$, $10^{0.70} = y$ and $x^z = y^2$, then the value of z is close to:

- a) 145 b) 1.88
c) 2.9 d) 3.7

4) If $5^a = 3125$, then the value of $5^{(a-3)}$ is:

- a) 25 b) 125
c) 625 d) 1625

5) If $3^{(x-y)} = 27$ and $3^{(x+y)} = 243$, then x is equal to:

- a) 0 b) 2
c) 4 d) 6

6) Simplify $3^{-2} \times 81^{\frac{3}{4}} \div (729)^{-\frac{1}{3}}$

- a) 9 b) 27
c) 81 d) None of the Above

7) $5^{2x-2} = 625$, find x

- a) 1 b) 2
c) 3 d) 4

8) $\frac{14^{n+4} \times 7^{n+3} \times 2^{n+3}}{13 \times 14^{n-1} \times 14^n}$

- a) 2940 b) 2490
c) 2049 d) None of these

9) If $17^x = 4913$, find the value of 2^{2x-1} .

- a) 16 b) 32
c) 64 d) 128

10) If $5^{2x} = 15625$, find x^2

- a) 9 b) 27
c) 81 d) None of these

11) $(\sqrt{3})^5 \times 9^2 = 3^x \times 3\sqrt{3}$, then x equals

- a) 2 b) 3
c) 4 d) 5

12) If $2^{x-1} + 2^{x+1} = 320$, then x is equal to

- a) 6 b) 8
c) 5 d) 7

13) If $a^{\frac{1}{m}} = b^{\frac{1}{n}} = c^{\frac{1}{p}}$ and $abc = 1$, then $m + n + p$ is equal to

- a) 0 b) 2
c) 1 d) -2

14) The value of $x^{1/2} \cdot y^{-1} \cdot z^{2/3}$, when $x = 9$, $y = 3$, and $z = 8$ is

- a) 18 b) 12
c) 6 d) 4

15) If m and n are whole numbers such that, $m^n = 121$, then the value of $(m-1)^{n+1}$ is

- a) 1 b) 10
c) 121 d) 1000

16) The value of $\sqrt[8]{1+\sqrt{2}} \cdot \sqrt[6]{3-2\sqrt{2}}$ equal to

- a) $2-\sqrt{2}$ b) $\sqrt{2}-2$
c) $3-2\sqrt{2}$ d) 1

17) $\left(\frac{x^a}{x^b}\right)^{(a+b)} \times \left(\frac{x^b}{x^c}\right)^{(b+c)} \times \left(\frac{x^c}{x^a}\right)^{(c+a)} = ?$

- a) 0 b) x^{abc}
c) $x^{(a+b+c)}$ d) 1

18) $\frac{1}{1+x^{(b-a)}+x^{(c-a)}} + \frac{1}{1+x^{(a-b)}+x^{(c-b)}} + \frac{1}{1+x^{(b-c)}+x^{(a-c)}} = ?$

- a) x^{a-b-c} b) 1
c) 0 d) 3

19) $\sqrt[3]{\sqrt{a^3}}$ is equal to

- a) a b) 1
c) $a^{1/3}$ d) a^3

20) The value of $5^{1/4} \times (125)^{0.25}$ is

- a) $\sqrt{5}$ b) $5\sqrt{5}$





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c) 5 d) 25

21) If $4^{2x} = \frac{1}{32}$ then x is

a) $5/4$ b) $4/5$
c) $3/5$ d) None of these

22) $\frac{(0.6)^0 - (0.1)^{-1}}{(\frac{3}{23})^{-1} \cdot (\frac{3}{2})^3 + (-\frac{1}{3})^{-1}}$ is equal to

a) $\frac{3}{2}$ b) $-\frac{1}{2}$
c) $\frac{2}{3}$ d) $\frac{2}{3}$

23) $\frac{2^{n+4} - 2 \cdot 2^n}{2 \cdot 2^{n+3}} + 2^{-3}$ is equal to

a) 2^{n+1} b) $-2^{n+1} + \frac{1}{8}$
c) $\frac{9}{8} - 2^n$ d) 1

24) If 243 then x is equal to

a) 0 b) 2
c) 4 d) 6

25) If $(\frac{a}{b})^{x-1} = (\frac{b}{a})^{x-3}$, then the value of x is

a) 3 b) 8
c) 2 d) 4

$3^{(x-y)} = 27$ and $3^{(x+y)} =$

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