



spardhaguru2022



Spardhaguru Current affairs



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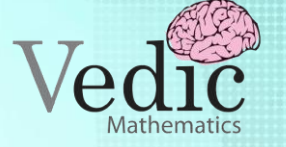
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1) The value of $\frac{(243)^{0.13} \times (243)^{0.07}}{(7)^{0.25} \times (49)^{0.075} \times (343)^{0.2}}$

- a) $1\frac{3}{7}$ b) $\frac{3}{7}$
c) $2\frac{2}{7}$ d) $\frac{7}{3}$

2) $(16^{0.16} \times 2^{0.36})$ is equal to

- a) 32 b) 2
c) 64 d) 16

3) The value of $\sqrt{5+2\sqrt{6}} - \frac{1}{\sqrt{5+2\sqrt{6}}}$ is :

- a) $1+\sqrt{5}$ b) $2\sqrt{2}$
c) $\sqrt{5}-1$ d) $2\sqrt{3}$

4) $\sqrt[3]{0.004096}$ is equal to:

- a) 0.04 b) 4
c) 0.004 d) 0.4

5) The value of : $-\sqrt{3} + \sqrt{3+8\sqrt{7}+4\sqrt{3}}$ is:

- a) 3 b) 1
c) 8 d) 2

6) $\sqrt{8-2\sqrt{15}}$ is equal to :

- a) $\sqrt{5}+\sqrt{3}$ b) $\sqrt{5}-\sqrt{3}$
c) $3-\sqrt{5}$ d) $5-\sqrt{3}$

7) $\frac{\sqrt{5}}{\sqrt{3}+\sqrt{2}} - \frac{3\sqrt{3}}{\sqrt{5}+\sqrt{2}} + \frac{2\sqrt{2}}{\sqrt{5}+\sqrt{3}}$ is equal to :

- a) $2\sqrt{10}$ b) 0
c) $2\sqrt{6}$ d) $\sqrt{15}$

8) The value of $\frac{1}{\sqrt{3.25}+\sqrt{2.25}} + \frac{1}{\sqrt{4.25}+\sqrt{3.25}} + \frac{1}{\sqrt{5.25}+\sqrt{4.25}} + \frac{1}{\sqrt{6.25}+\sqrt{5.25}}$ is:

- a) 1.50 b) 1.00
c) 2.25 d) 1.25

9) $\frac{12}{3+\sqrt{5}+2\sqrt{2}}$ is equal to :

- a) $1+\sqrt{5}-\sqrt{2}+\sqrt{10}$
b) $1-\sqrt{5}+\sqrt{2}+\sqrt{10}$
c) $1-\sqrt{5}-\sqrt{2}+\sqrt{10}$
d) $1+\sqrt{5}+\sqrt{2}-\sqrt{10}$

10) $(16)^{0.16} \times (16)^{0.04} \times (2)^{0.2}$ is equal to :

- a) 4 b) 1
c) 16 d) 2

11) When $(4+\sqrt{7})$ is Presented in the form of perfect square it will be equal to:

- a) $\left(\frac{1}{\sqrt{2}}(\sqrt{7}+1)\right)^2$ b) $(2+\sqrt{7})^2$
c) $(\sqrt{3}+\sqrt{4})^2$ d) $\left(\frac{\sqrt{7}}{2}+\frac{1}{2}\right)^2$

12) The approximate value of $\frac{3\sqrt{12}}{2\sqrt{28}} \div \frac{2\sqrt{21}}{\sqrt{98}}$ is:

- a) 1.6026 b) 1.0727
c) 1.6007 d) 1.0606

13) $2^3\sqrt{32} - 3^3\sqrt{4} + \sqrt[3]{500}$ is equal to :

- a) $6^3\sqrt{4}$ b) $4^3\sqrt{6}$
c) 916 d) $3\sqrt{24}$

14) $(\sqrt{8}-\sqrt{4}-\sqrt{2})$ equals :

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

15) The value of $(256)^{0.16} \times (16)^{0.18}$ is :

- a) 16 b) 4
c) 256 d) -4

16) The simplified form of $(16^{\frac{3}{2}} + 16^{-\frac{3}{2}})$ is :

- a) 1 b) 0
c) $\frac{16}{4097}$ d) $\frac{4097}{64}$





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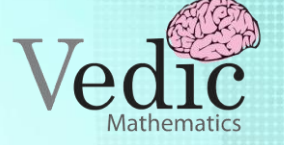
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17) The simplified form of $\frac{2}{\sqrt{7}+\sqrt{5}} + \frac{7}{\sqrt{12}-\sqrt{5}} - \frac{5}{\sqrt{12}-\sqrt{7}}$ is :

- a) 1 b) 5
c) 0 d) 2

18) $\left(3 + \frac{1}{\sqrt{3}} + \frac{1}{3+\sqrt{3}} + \frac{1}{\sqrt{3}-3}\right)$ is equal to :

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

19) The value of $\sqrt{2^4} + \sqrt[3]{64} + \sqrt[4]{2^8}$ is:

- a) 18 b) 12
c) 24 d) 16

20) $8^{\frac{2}{3}}$ is equal to :

- a) 4 b) $5\frac{1}{2}$
c) $3\frac{1}{3}$ d) $21\frac{1}{3}$

