



spardhaguru2022



Spardhaguru Current affairs



Spardhaguru1



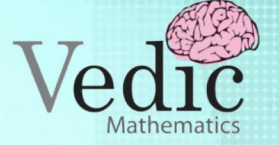
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1) If $x = \sqrt{11} + \sqrt{20}$, $y = \sqrt{15} + \sqrt{17}$ and $z = \sqrt{14} + \sqrt{18}$, then which of the following holds true?

- a) $x < y < z$ b) $y < z < x$
c) $y < x < z$ d) $x < z < y$

2) $[(\sqrt{7} + \sqrt{5}) / ((\sqrt{7} - \sqrt{5}))] + [(\sqrt{7} - \sqrt{5}) / (\sqrt{7} + \sqrt{5})] = ?$

- a) 6 b) 12
c) 14 d) 18

3) If $y^3 = 0.008$, $y^5 = ?$

- a) 0.00032 b) 0.0032
c) 0.032 d) 0.000032

4) Identify the greatest numbers: 4^{50} , 2^{100} , 16^{25}

- a) 4^{50} b) 2^{100}
c) 16^{25} d) All are equal

5) Which among the following is the greatest?

- 2^{96} , 3^{72} , 4^{60} , 5^{48} ,
a) 3^{72} b) 5^{48}
c) 4^{60} d) 2^{96}

6) What is least number which when successively divided by 6, 4 and 4 leaves a remainder 5, 3 and 3 respectively?

- a) 191 b) 177
c) 57 d) 17

7) Find the value of $5^6 \times 5^9 \div 5^{14} = ?$

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

8) What should come in place of the question mark (?) in the following questions?

$(0.64)^{3/2} = ?$

- a) 0.536 b) 0.524
c) 0.512 d) 0.516

9) What should come in place of the question mark (?) in the following questions?

$4^{17} / 4^{14} = ?$

- a) 64 b) 36

- c) 24 d) 81

10) The value of 'x' in the given below equation is.
 $0.5^x + 0.7^x + 0.9^x + 0.3^x = x$

- a) $63^{1/2}$ b) $4^{1/4}$
c) $2^{2/3}$ d) $13^{1/3}$

11) $(64/25)^2 \times (125/512)^{2-1} - 1 = 5/8$

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

12) $(0.04)^{-2.5} = ?$

- a) $10^5/2^5$ b) $10^5/6^5$
c) $18^5/16^5$ d) $8^5/2^5$

13) $(0.36)^{-1.5} = ?$

- a) $13^3/6^3$ b) $10^3/7^3$
c) $10^3/6^3$ d) $10^3/3^3$

14) If $10^{0.13} = 14$ and $(0.1)^x = 140$, then what is the value of x.

- a) -1.13 b) -1.9
c) -1.12 d) -1.8

15) 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) $7^5/6^7$

