



1. The $\frac{P}{Q}$ form of $23.\overline{43}$ is (2011)
- (a) $\frac{2343}{99}$ (b) $\frac{2343}{100}$
- (c) $\frac{2320}{99}$ (d) $\frac{2343}{999}$

Ans. (c)

2. If $x = 1 - \overline{2}$, the value of $(x - x^{-1})^3$ is (2011)
- (a) $2\overline{2}$ (b) 8
- (c) 1 (d) None of these

Ans. (b)

3. Simplify $6\frac{1}{7} + 5\frac{1}{4} + 8\frac{1}{2} - 6\frac{1}{4} = ?$ (2012)
- (a) $13\frac{1}{7}$ (b) $6\frac{1}{5}$
- (c) $23\frac{1}{7}$ (d) 29

Ans. (None)

4. Raj, Ritik and Piyush begin to jog around a circular stadium. They complete their revolutions in 42 sees, 56 sees and 63 sees respectively They will be together at starting points after: (2012)
- (a) 336 sees (b) 504 sees
- (c) 252 sees (d) can't be determined

Ans. (b)

5. Rashmi sets alarm in two different clocks. The first alarm rings after every 30 minutes and the second rings after every 90 minutes. If they ring together at 11 pm. They will ring again together at: (2012)
- (a) 12.30am (b) 2.00 am
(c) 1.30 am (d) 1.00 am

Ans. (a)

6. Find the wrong term in the following series : 9359, 1558, 311, 17, 25, 12, 12 (2012)
- (a) 77 (b) 25
(c) 12 (d) 1558

Ans. (Insufficient data)

7. If $\frac{6}{3\overline{2} - 2\overline{3}} = 3\overline{2} - a\overline{6}$, then the value of a is (2013)
- (a) $\overline{2}$ (b) $-\overline{2}$
(c) $2\overline{3}$ (d) $-2\overline{3}$

Ans. (b)

8. If $\frac{3\overline{2} + 2\overline{3}}{2 + 3\overline{3}} = a + b\overline{6}$, then the value of a and b are (2014)
- (a) $a = \frac{-6}{5}, b = \frac{1}{5}$ (b) $a = \frac{1}{5}, b = \frac{6}{5}$
(c) $a = \frac{6}{5}, b = \frac{1}{5}$ (d) $a = \frac{6}{5}, b = \frac{-1}{5}$

Ans. (d)

9. $\frac{1}{3 - \overline{8}} - \frac{1}{\overline{8} - \overline{7}} - \frac{1}{\overline{7} - \overline{6}} - \frac{1}{\overline{6} - \overline{5}} - \frac{1}{\overline{5} - 2}$
- (a) 1 (b) 5
(c) $\overline{5}$ (d) $\overline{8}$

Ans. (c)

10. The value of $0.\overline{235}$ is (2014)
- (a) $\frac{2}{900}$ (b) $\frac{233}{990}$
(c) $\frac{5}{999}$ (d) $\frac{235}{990}$

Ans. (b)

11. If $a = \frac{4\sqrt{2}}{\sqrt{2+1}}$, then the value of $\frac{(a+2)}{(a-2)} - \frac{(a+2\sqrt{2})}{(a-2\sqrt{2})}$ is (2015)
- (a) $12 + 8\sqrt{2}$ (b) $12 - 8\sqrt{2}$
(c) 2 (d) -2

Ans. (a)

12. Ajay wanted to type the first 180 natural numbers. Find the number of times he had to press the numbered keys (2015)
- (a) 416 (b) 430
(c) 432 (d) 448

Ans. (c)

13. If $\frac{\bar{3} + 2\bar{5}}{3 - 2\bar{5}} = b + a\bar{15}$, then the value of a and b are (2015)
- (a) $a = \frac{23}{17}, b = \frac{4}{17}$ (b) $a = \frac{23}{17}, b = \frac{4}{17}$
(c) $a = \frac{-4}{17}, b = \frac{-23}{17}$ (d) $a = \frac{-4}{17}, b = \frac{23}{17}$

Ans. (c)

14. The value of $0.20 + 0.23$ is (2015)
- (a) $0.4\bar{3}$ (b) $0.4\bar{3}$
(c) $0.4\bar{5}$ (d) $0.4\bar{5}$

Ans. (c)

15. Decimal expression of $\frac{987}{10500}$ is (2015)
- (a) 0.976 (b) 0.094
(c) 0.940 (d) 0.0094

Ans. (b)

