



NAME:
REG NO:
YEAR:

AptiTrack

Time: 60 minutes

1. If 50% of $(x - y) = 30\%$ of $(x + y)$, then what percentage of x is y ?
 - (a) 20%
 - (b) 25%
 - (c) 30%
 - (d) 35%
2. $X\%$ of $Y + Y\%$ of $X = ?$
 - (a) 1% of XY
 - (b) 2% of XY
 - (c) 50% of XY
 - (d) Invalid
3. If the age of Itadori is 15 yrs. If Satoru's age is 86.67% greater than that of Itadori, then how much % Itadori's age is less than Satoru's age. (up to two decimal points)

Answer: -----

4. If the price of oil is increased by 30%, then by how much should a family reduce its consumption so that the expenditure would remain the same?
 - (a) 13%
 - (b) 23%
 - (c) 33%
 - (d) 43%
5. 25000 is invested at C.I 10% per annum. Find the amount after 2 years.
If conversion period is
 - (i) Annually
 - (a) 30250
 - (b) 31750
 - (c) 30000
 - (d) None of the above
 - (ii) Half Yearly
 - (a) 30387.65
 - (b) 30487.65

- (c) 30587.65
(d) 30687.65
- (iii) Quarterly
- (a) 30460.07
(b) 30560.08
(c) 30570.09
(d) 30670.10
6. A tradesman marks his goods at such a price that after allowing a discount of 15%, he earns a profit of 20%. Find the marked price of an article which cost him Rs 850.
- (a) 1000
(b) 1200
(c) 1400
(d) 1600
7. Jenna can complete a piece of work in 15 days. Emma can complete the same work in 9 days. If both of them work together, in how many days can they complete the same piece of work?
- (a) 3.525
(b) 5.625
(c) 7.000
(d) 7.125
8. Pipes A and B can fill a tank in 20 hrs and 30 hrs respectively, and pipe C can empty the full tank in 40 hrs. If all the pipes are open together. How much time will it take to fill the tank fully?
- (a) $\frac{100}{7}$ hrs
(b) $\frac{105}{7}$ hrs
(c) $\frac{115}{7}$ hrs
(d) $\frac{120}{7}$ hrs
9. Sum of the first 21 terms of the series $(2, 6, 10, \dots)$ is

Answer: _____

10. $\left(\frac{1}{3}\right) + \left(\frac{5}{9}\right) + \left(\frac{9}{27}\right) + \dots + \infty$
- (a) Infinity

- (b) 1.5
 - (c) 2.5
 - (d) Greater than or equal to 3
11. How many 4 digits even numbers can be formed with the digits 1, 4, 5, 8, 9 without any repetition.
- (a) 48
 - (b) 128
 - (c) 36
 - (d) None of the above
12. In how many ways can the letters of the word TCE be arranged without repetition and with repetition?

Answer: _____

13. In how many ways can 6 girls and 5 boys stand in a row so that no two boys are together?
- (a) 3000
 - (b) 4000
 - (c) 5000
 - (d) None of these
14. Find the highest power of 2 in $320!$
- (a) 218
 - (b) 318
 - (c) 418
 - (d) 518
15. Find the number of zeros at the end of $(2^{222}) \times (5^{555})$.

Answer: _____

16. Find the unit digit of 454^{999} .
- (a) 2
 - (b) 6
 - (c) 4
 - (d) 8

17. Today is Monday. After 10000 days it will be
- (a) Tuesday
 - (b) Wednesday
 - (c) Thursday
 - (d) Friday
18. All keyboard are scanner.
No Scanner is printer.
All printer are mouses.
- Conclusion**
- 1.No Keyboard is a mouse
 - 2.All Scanner being mouse is a possibility
- (a) 1 is True
 - (b) 2 is True
 - (c) Both are True
 - (d) Both are False
19. Number of diagonals in a Decagon (10 sided polygon):
- (a) 15
 - (b) 25
 - (c) 35
 - (d) 45
20. How many squares of all possible sizes are there on the chessboard?
- (a) 64
 - (b) 132
 - (c) 204
 - (d) 512