



UPSC EPFO 2025 APFC & EO/AO Quantitative Aptitude Questions

Quantitative Aptitude

Q1. The length of candle B is 3 times the length of candle A. The speed of burning of Candle B is 4 times the speed of burning of Candle A. A party begins with the lighting of these two candles. The party ends when the heights of these candles become equal. If the numerical value of length (in metre) of the burnt away portion of Candle A and the speed (in metre per hour) of its burning are same, how long, in hours, did the party continue?

- A. $1/2$
- B. 1
- C. $1\frac{1}{4}$
- D. $1/2$

Q2. Five prime numbers are arranged in ascending order. The ratio of the product of the first three of them to that of the last three of them is 35 : 323. What is the difference between the smallest and the largest numbers?

- A. 8
- B. 10
- C. 12
- D. 14

Q3. In a movie hall, there are three categories of seats: Diamond, Gold and Silver. On a week day, the prices per ticket in these categories are ₹ 500, ₹ 300 and ₹ 200, respectively. But on weekends, the prices are raised to ₹ 800, ₹ 500 and ₹ 300, respectively. There are exactly 10 Diamond seats and the number of Silver seats is double the number of Gold seats. If the hall goes house full in all the shows, which of the following is the excess earning made per show on a weekend?

- A. ₹ 20,000
- B. ₹ 23,000
- C. ₹ 26,000
- D. ₹ 30,000

Q4. How many digits are there in 6^{25} ? (It is given that $\log_{10} 2 = 0.3010$ and $\log_{10} 3 = 0.4771$)

- A. 20
- B. 21
- C. 22
- D. 23

Q5. In a business, A, B and C had invested in the ratio of 2 : 3 : 5, but they all earned the same amount of profit at the end. If the profit is proportional to the amount as well as the duration of the investment, what will be the ratio of duration of their investments?

- A. 5 : 3 : 2
- B. 2 : 3 : 5
- C. 10 : 15 : 6
- D. 15 : 10 : 6

Q6. If five persons take five hours to paint five walls of equal area, how many hours will 7 persons take to paint 7 walls of equal area, provided both the sets of walls are identical?

- A. 8
- B. 7
- C. 6
- D. 5

Q7. A train starts from station A at 9 AM and reaches station B at 2 PM. Another train starts from station B at 11 AM and reaches station A at 3 PM. On their way, they meet at a point P. The distances from station A to P and from station B to P bear the ratio:

- A. 1 : 2
- B. 2 : 1
- C. 2 : 3
- D. 3 : 2

Q8. If x percent of a is same as y percent of b, then what percent of a is z percent of b?

- A. $\frac{zx}{y}$
- B. $\frac{xy}{z}$
- C. $\frac{yz}{x}$
- D. $\frac{x}{yz}$

Q9. Consider the following Assertion and Reason:

Assertion: 15% discount on the marked price of an item is more than the discount of 10% on the marked price of the same item and a subsequent (successive) discount of 5%.

Reason: The subsequent (successive) discount is on the discounted amount.

Which one of the following is correct with regard to the above Assertion and Reason?

- A. Both the assertion and the reason are individually true and the reason is a correct explanation of the assertion.
- B. Both the assertion and the reason are individually true, but the reason is not a correct explanation of the assertion.

- C. Assertion is true, but Reason is false.
- D. Assertion is false, but Reason is true.

Q10. Three distinct positive integers a , b and c are such that $b - a = c - b$ and $a + b + c = 12$. What is the maximum number of such possible sets (a, b, c) ?

- A. 1
- B. 2
- C. 3
- D. 4

Q11. Find the missing term in the following alpha-numeric series :

C - 24, H - 19, M - 14, ?, W - 4

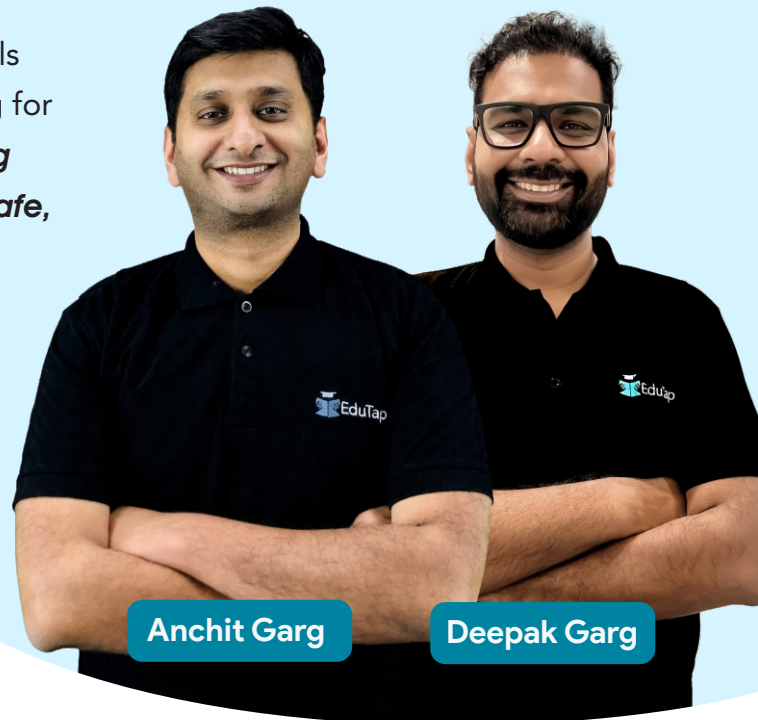
- A. S - 7
- B. R - 9
- C. S - 18
- D. R - 17

Q12. How many three-digit numbers are there that have the middle digit as the sum of the first digit and the third digit ?

- A. 40
- B. 45
- C. 50
- D. 55

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