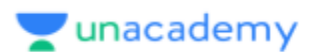


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CAT - 2023 [Analysis Session]
26-11-2023




CAT 2023

Paper Analysis

— 26th November 2023 —

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QUANT Part

Question 1

A person sold 2 products A and B at the same price. While doing that there was 20% Profit on A and 10% loss on B. Now again both the products are sold at the same price but there is 10% Profit on B this time. What is the approximate profit percentage on A?

- (1) 47
- (2) -
- (3) -
- (4) -

Answer = 47

Question 2

Arvind went from point A to B and Surubhi from B to A. They met somewhere between continuing their journey. Arvind took 6 hours and Surubhi took 24 hours to reach the respective destinations after meeting. If Aravind traveled 54 Kmph, what is the distance AB.

- (1) 972 Kms
- (2) -
- (3) -
- (4) -

Answer = 972 Kms

Question 3

Salaries of A, B and C are in the ratio 5: 6 :7 .Their salaries are increased in 1st year by 20%, 25% and 20% respectively. In the 2nd year, Then the salaries of A and C are again increased by 40% and 25%.The new salary of B is equal to the mean of salaries of A, B and C. What is the approximate percentage increase in the salary of B, in the second year.

- (1) 26%
- (2)
- (3)
- (4)

Answer = 26%

QUANT Part

Question 4

Angle between the hands at 8:48 is x . what is the minimum time in minutes when the angle between them increases by 50%.

- (1) 24/11 Mins
- (2)
- (3)
- (4)

Answer = 24/11 Mins

Question 6

$(1134)^n$ is divisible by 168. $(168)^m$ is divisible by $(1134)^n$. Find the minimum value of $n + m$

- (1) 15
- (2)
- (3)
- (4)
- (5)

Answer = 15

Question 7

From a cup of coffee, some coffee is removed and replaced with Coco powder. Thus, Mix P is formed. Again, same amount of mixture is removed from Mix P and replaced with Coco powder. Thus, mix Q is formed. Mix Q has Coffee and Coco powder in the ratio of 16:9. find the ratio of Coco powder in P : Q

- (1) 5:9
- (2)
- (3)
- (4)

Answer =

QUANT Part

Question 8

If x and y are real numbers such that $x^2 + (x - 2y - 1)^2 = 4y(x + y)$, Find the value $x - 2y$ is

- (1) 1
- (2) 2
- (3) 0
- (4) -1

Answer = 1

Question 9

Find the number of natural numbers less than (or up to) 1000 having different digits.

- (1) 738
- (2)
- (3)
- (4)

Answer = 738

Question 11

Let α and β be the two distinct roots of $2(x^2) - 6x + k = 0$, such that $(\alpha + \beta)$ & $(\alpha * \beta)$ are the distinct roots of the equation $x^2 + px + p = 0$, then, the value of $8(k - p)$

- (1) 6
- (2)
- (3)
- (4)

Answer = 6

Question 12

The number of integer solution of $2|x|(x^2 + 1) = 5x^2$

- (1)
- (2)
- (3)
- (4)

Answer = 3

QUANT Part

Question 15

Brishti went on a 8-hour trip in a car, before the trip the car had traveled a total of x kms till then, where x is a whole number and is palindromic, at the end of his trip the car had traveled a total of 26862 kms.

If Brishti never drove at more than 110 km/hr, then the greatest possible average speed at which he drove is?

- (1) 90
- (2) 80
- (3) 110
- (4) 100

Answer = 100





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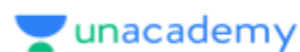
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