DAY - 3

APTITUDE

1 → CP = 500
SP = 450

Now loss = CP - SP
= 500 - 450
⇒ 50//

⇒ loss % = $\frac{50}{500} \times 100$

⇒ 10%.

2 → Let no of skilled, unskilled workers and clerks be ~~8x~~

⇒ 8x, 5x and x

So 5x = 20 ⇒ x = 4//

Let their wages be 5y, 2y and 3y.

Now, 32 × 5y + 20 × 2y + 12y = 3180
⇒ y = 15//

NOTES

So their daily wages will be

⇒ 32 × 5 × 15 , 20 × 2 × 15 , 12 × 15.
⇒ 2400 ⇒ 600 ⇒ 180

3) If x varies inversely as (y^2-1) and is equal to 24 when $y = 10$,

$\Rightarrow x \propto 1/(y^2-1)$

$\Rightarrow x = k/(y^2-1)$

$\Rightarrow$ if $y = 10$ then $x = 24$

So,

$\Rightarrow 24 = k/99$

$\Rightarrow k = 99 \times 24$, Now, $y = 5$

then $x = \frac{99 \times 24}{24} \Rightarrow x = 99$//

4) let the soldier in two armies be $10x$, $3x$ and losses be $2y$, $3y$.

then, $10x - 2y = 24000$

and $3x - 3y = 24000 \times 13/40 \Rightarrow 7800$

on solving, we get:- $x = 2800$//

then $\Rightarrow 10x = 280000$

$3x = 8400$

5 → Given number ⇒ 256256
and 678678

we can write it as ⇒ 256 × 1001
⇒ 678 × 1001

∴ So any number of this form is divisible by
⇒ 1001 //

6 → Clearly the lady is the grandmother of man's sister's son, the mother of the mother of man's sister's son, the mother of man's sister. So the lady is mother of that man.

7 → Aunt.

8 → Total marks in 10 papers ⇒ 10 × 80 = 800
" " " 8 " " ⇒ 8 × 81 = 648
" " " 2 " " ⇒ 800 − 648 = 152.

let 1st no. be x
So ⇒ x + 92 = 152
⇒ x = 60 //

NOTES

9 → P(x) = 1/6, P(y) = 1/10, P(z) = 1/8.

So P(x) + P(y) + P(z) = 1/10 + 1/6 + 1/8 ⇒ 47/120 //

10→ Acc to ques.

$\Rightarrow \frac{83x + 76y}{x+y} = 79 \quad \Rightarrow x = 3y/4.$

$\Rightarrow \frac{76y + 85z}{y+z} = 81 \quad \Rightarrow z = 5y/4$

Now, avg of all 3 = $\frac{83x + 76y + 85z}{x+y+z}$

$\Rightarrow \frac{83\{3y/4\} + 76y + 85\{85/4\}}{\frac{3y}{4} + y + \frac{5y}{4}}$

$\Rightarrow \frac{\frac{249}{4} + 76 + \frac{425}{4}}{\frac{3}{4} + 1 + \frac{5}{4}} \Rightarrow \frac{\frac{249 + 304 + 425}{4}}{\frac{3+4+5}{4}}$

$\Rightarrow 978/12 = 81.5$

NOTES

APRIL '18

						1	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	16	17	18	19	20	21	22	
23	24	25	26	27	28	29	30							

M T W T F S S M T W T F S S

SATUR

MA

Reasoning

9

1) CUP : LIP :: BIRD : ?

10

⇒ BEAK.

11

2) PAW : CAT :: HOOF : ?

12

⇒ HORSE

1

3) A - only conclusion I st follows.

2

4) A - Some Pens are Marker.

3

5) A - This flower is a rose.

4

5

6

7