Dos and Don'ts for Generaral Science & Ability Paper

Hi there, you've done well. Know that accurate knowledge is one thing and reproducing it in paper acccording to what's asked is another. There are a few things I would like to highlight.

1. A 5 marks part requires at least 2 and at max 3 sides of a paper. Know that there can be two or three parts of a question and their marks are divided accordingly. So, address all of them in a just manner.

2. Focus on time management. You get 35 minutes to solve one question and about 8 minutes per 5 mark part. Manage your time accordingly.

3. You need to understand that your paper is supposed to look more scientific than theoretical. So, add flowcharts and diagrams where required.

4. Your handwriting and neatness can be really impactful. Avoid cutting and overwriting.

5. Focus on your spellings and your grammar. Here, in CSA there's no deduction in marks but your expression will definitely create an impact.

6. In ability portion, give explanation for analytical ability question in words. You need to understand that a 5 mark part requires all steps written and explained.

Good luck for CSS 2025. You're gonna rock in sha Allah. :)

Date:

$26x^2 - 24x + 8 = 114$

$26x^2 - 24x - 106 = 0$

$\Rightarrow 13x^2 - 12x - 53 = 0$

Quadratic equation $\Rightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$\Rightarrow \frac{(-12) \pm \sqrt{(-12)^2 - 4(13)(-53)}}{2(13)}$

$\Rightarrow \frac{12 \pm \sqrt{144 + 2756}}{26}$

$\Rightarrow \frac{12 \pm \sqrt{2900}}{26}$

(Question seems incorrect $\Rightarrow$ solves A age ?

(c) A hen has 1 head and 2 Feet

A cow has 1 head and 4 Feet

Let hen be "x"

Let cow be "y"

eq i) $x + y = 48$

eq ii) $2x + 4y = 140$

Date:

$y = 48 - x$

↓

(input in eq 2)

$\Rightarrow 2x + 4(48-x) = 140$

$\Rightarrow 2x + 192 - 4x = 140$

$\Rightarrow -2x = -52$

$\Rightarrow x = 26$

$\Rightarrow$ X ⇒ Hen, So number of Hen is $\boxed{26}$

(d) Car speed ⇒ 40km/h → 1st Half of Journey

Car Speed ⇒ 60km/h → 2nd Half of Journey

$\underline{1^{st}\ Half} = \frac{Distance}{2} \Rightarrow D$

Speed = 40km/h ; $Speed = \frac{Distance}{Time}$

$Time = \frac{D/2}{40} = \boxed{\frac{D}{80}\ hours}$

$\underline{2^{nd}\ Half} = \frac{Distance}{2} \Rightarrow D$

Date:_____

Speed = 60km/hr

Time = $\frac{D/2}{60}$ = $\boxed{\frac{D}{120} \text{ hours}}$

Total Time

$\frac{D}{120} + \frac{D}{80} = \frac{2D + 3D}{240} = \frac{5D}{240}$

Total time = $\frac{D}{48}$ hours

Average Speed

= $\frac{\text{Total Distance}}{\text{Total Time}} = \frac{D}{D/48}$

⇒ ⇒ Average Speed for Car is

$\boxed{48 \text{ km/h}}$

Question 7

(a) Let number be "x"

⇒ $\frac{x}{6}$ (Add 50) ⇒ $\frac{x}{6} + 50$

(Total is 60) ⇒ $\frac{x}{6} + 50 = 60$

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$\frac{x}{6} = 10 \Rightarrow x = 60$

The number is **60**

(b) The number series exceeds the table of 8:

$8 \times 1 = 8$, $8 \times 2 = 16$, $8 \times 3 = 24$,

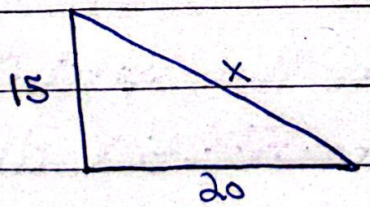
$8 \times 4 = 32$

The fourth number should have been 32 but it is 34

$\Rightarrow$ The odd number in the series is **34**

(c) Tower height = 15m

Tower base = 20m



Using the Pythagoras theorem we will find x.

$x^2 = 15^2 + 20^2 \Rightarrow$ Aerial distance

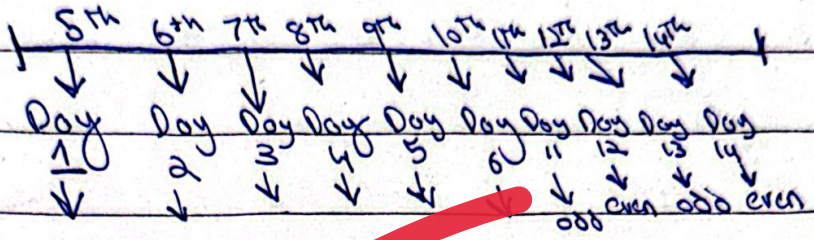
$x^2 = 625 \rightarrow x = 25$ from top is 25m

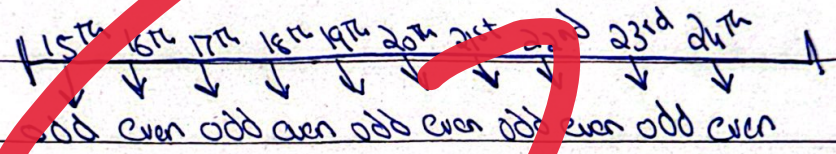
Date:_____

(d) Tariff for odd dates = Rs. 1000

Tariff for even dates = Rs. 2000

Total amount paid = Rs. 30000





10 odd days from 5th date A month

= Rs. 10,000

10 even days from 6th date A month

= Rs. 20,000

⇒ He stayed in the hotel for 20 days from 5th till 24th

Question 8

(a) C Point knows the answer)

Date:

(b) Mixture of milk = 60 litres

Current ratio of milk and water is 2:1

which means:

Milk = $\frac{2}{3} \times 60^{20} = 40$ litres

Water = $\frac{1}{3} \times 60^{20} = 20$ litres

(Ratio changed to 1:2)

Milk = $\frac{1}{3} \times 60^{20} = 20$ litres

Water = $\frac{2}{3} \times 60^{20} = 40$ litres

The new ratio has increased water from 20 litres to 40 litres in the new mixture.

⇒ **20 litres of water is to be further added to obtain 1:2**

(c) i) A is the brother of B = A and B are Siblings

ii) B is the sister of C = B and C are Siblings so A and C are also siblings as A is brother of C

iii) C is father of D

⇒ Since A is the brother of C,

Date:

and C is the father of D, A is D's uncle.

⇒ D is A's Nephew, given D is a Male

(a) Roar ⇒ Urdu

R O A R
U R D U

Working

A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z

1st Letter = +3
2nd Letter = +2 (1 and 4)
3rd Letter = +2 (2 and 3)
4th Letter = +3

So U R D U can be written as XTFX