Dos and Don'ts for General Science & Ability Paper

Hi there, You've done well. Know that acquiring knowledge is one thing and reproducing it in paper according 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 GSA 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 2026. You're gonna rock in sha Allah. :)

General Science and Ability

Mock I

Part II

Section II

Q.No7(a)

The Sum of two numbers and its product is 132. Find the numbers.

Let one number is x

other number is y

per given conditions:-

$x + y = 0$

$xy = 132$

From eq ①

$x + y = 23$

$x = 23 - y$ → put this

$y(23 - y) = 132$

$23y - y^2 = 132$

$-y^2 + 23y - 132 = 0$

$-(y^2 - 23y + 132) = 0$

$-y^2 + 23y + 9y - 132 = 0$

$-y(y + ...) + ... $

16

7

$$-y(y - 15) + 9(y - 15) = 0$$
$$(y - 15)(-y + 9) = 0$$
$$(y - 15)(-y + 9) = 0$$

$$y - 15 = 0 \qquad\qquad -y + 9 = 0$$
$$y = 15 \qquad\qquad y = 9$$

putting $y = 15$ in eq ~~①~~

$$x + y = 23$$
$$x + 15 = 23$$
$$x = 23 - 15 \qquad 9$$
$$x = 9$$

So $\quad x = 9 \qquad y = 15$

one Number 9 and other
is 15.

Q7 (b)

40% of a No is more than
20% of 650 by 190. Find
the No.

Solution: let the Number is x

$$\frac{40}{100} \times x = \left[\frac{20}{100} \times 650\right] + 190$$

$$\frac{40x}{100} = \left[\frac{\cancel{20} \times \cancel{650}}{\cancel{100}}\right] + 190$$

$$x = 1\cancel{30} \times \frac{\cancelto{100}{}}{\cancel{40}} + 190$$

$$x = 325 + 190$$

$$x = 515$$

Q7 (c)

A man buys a car for Rs 70 million after getting discount of 20%. What was marked price of car?

Solution:

After discount Cost price of car = 70 million PKR

Let marked price of car is x

Then 80% of x = 70 million R

$$\frac{80}{100} \times x = 70 \text{ million Rs}$$

$$x = \frac{70 \times 100}{80}$$

$$x = 87.5 \text{ million}$$

So marked price of car = 87.5 million.

Q7 (d)

A No is increased by 10% and decreased by 10%. The net change in the Number is?

Solution: Let the Number is 20

10% of 20 is increase in Number by 10%.

So $20 + \frac{10}{100} \times 20 = 20 + 2$

Then

After 10% decrease

$$22 - \frac{10}{100} \times 22 = 22 - 2.2$$

The number become $= 19.8$

The net Change $= 20 - 19.8$

$$= 0.2$$

0.2 is 1% of 20

The net Change in number
will be 1%.

Q.6 (a)

The sum of three consecutive
prime numbers is 159.
Find the numbers.

Solution. Suppose

Three consecutive prime
Numbers are

x, y and z.

$$x + y + z = 159$$

let $x = 47$ then

$$y = 53 \qquad z = 59$$

So $\qquad 47 + 53 + 59 = 159$

Method??

Q.6(b)

The perimeter of a circle having a radius 6cm is equal to?

Solution:

$r = 6cm$

The circumference of a circle $= 2\pi r$

so $= 2 \times \frac{22}{7} \times 6$

$= 37.7 \, cm$

QNo 6 (C)

Find the present age of a man when then average age of man, wife and their child is 3 years ago was 27 and that of wife and the child 5 years ago was 20 years.

Solution:

let age of man $= x$

age of wife $= y$

age of child $= z$

3 years ago

$$\frac{x+y+z}{3} = 27$$

$$x+y+z = 81 \quad —— ①$$

→ 5 years ago

$$\frac{y+z}{2} = 20$$

$$y+z = 40$$

Now :-

$$y+z = 50$$

3 years ago :- $x+y+z = 81$

Now : $x+y+z = 90$

Now   So $x+y+z = 90$ and

$$y+z = 50$$

then $x+50 = 90$

$$x = 90-50$$

$$x = 40$$

The present age of
man   is   40 years.

Solution: let the three numbers are x, y and z then

$$x + y + z = 98$$
$$x : y = 2 : 3$$
$$y : z = 5 : 8$$
$$y = ?$$

$$
\begin{array}{ccc}
x & y & z \\
2 & 3 & 3 \\
5 & 5 & 8 \\
\hline
10 & 15 & 24
\end{array}
$$

As per condition

$$x + y + z = 98$$

then $10 : 15 : 24$ is

got by $20 : 30 : 48$

So

$$20 + 30 + 48 = 98$$
$$y = 30$$

Second Number is 30.