Dos and Don'ts for Generaral Science & Ability Paper

Hi there, you've done well. Know that acquiring 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 2 sides (not more than that) 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 2025. You're gonna rock in sha Allah. :)

and ultimately crops have their nutrients requirements fulfilled which leads to better growth.

① Decrease in Quality of Food

The quality of food is decreased due to artificial ways to increase the production.

Excessive use of fertilizers reduces the quality of E food crops.

Excessive use of pesticides leads to chemicals being staying on the crops which reduces quality and taste of crops and is harmful as well.

Excessive farming practices reduce the nutrient value of the land.

Qno3 (b)

Solid Waste Management

Problems:

Solid waste management has following:
problems,

- In Solid Waste management the solid waste cannot be easily decomposed.

- Solid waste needs to be heated at high temperature in order to decompose.

- It requires a heavy setup without that it cannot be decomposed.

- There are substances in solid waste which are explosive and dangerous and need to be filtered out.

Solid waste contain such compounds and substances which cannot be decomposed easily they need to be treated separately.

What is SWM?
Explain
properly

Qno.3 (c)

Dengue Fever

Dengue fever is a fever which is happened due to mosquito bite, of a certain type which has white spots on its skin.

Symptoms -

- Higher body temperature leading to fever
- The count of Platelets is reduced drastically.
- Shivering and feeling cold.
- WBCs are also reduced.

Proper explanation is required

Qno.3
(d)

Plate Techtonics

In Tsunami, Plate techtonics move from their origional place causing high tides pull towards the moon.

This ultimately leads to higher tides in the sea leading towards a tsunami.

Richter Magnitude Scale	Volcanic Explositity Index
This is a scale to measure the magnitude of earthquake.	This is an index to measure the explosivity of volcanic eruption

Q no. 5:
(a)
Artificial Intelligence

Artificial Intelligence is the intelligence of a computer system to perform and execute tasks efficiently and effectively which a human brain can perform with more speed and efficiency and quality.

Outsmart humans

Proper explanation is required

Yes, artificial intelligence has the ability to outsmart humans. As it can perform tasks with higher speed and greater knowledge database which can outsmart humans. It can perform simple tasks like answering a question, creating a resume and several other tasks to creating pictures, videos and a lot of other tasks like AI robots which can perform any task they are ordered.

But still AI needs humans to create them as well as give them commands so AI can outsmart humans.

but will need humans directions to perform them.

Qno-5 (c)

Carbohydrates

Carbohydrates are the richest source of energy for human body. Carbohydrates are found in food such as bread, rice etc. They are the most common source of getting human nutrition.

Types

Carbohydrates are of two different types.

Forexample Glucose and fructose are two different types of carbohydrates.

Explain properly

Qno 5
(d)

Benefits of Balanced diet

A balanced diet is the one in which all the nutrients required for a healthy human body are taken and requirements are fulfilled.

Benefits

Add a pie chart

- A person remains healthy
- He does not become obese ~~obese~~
- He is not having malnutrition
- He is not subject to any kind of diseases.
- He has strength in his body.
  He has good immune system.

Give proper account of benefits

3)

SECTION-II

Q no. 6

(a)

Given

Original population = 18000

Increased " = 22500

Increase in " = 4500

Duration = 10 years.

Find

Percentage increase per year = ?

Solution

$$\frac{\text{Increase in Population}}{\text{Duration}}$$

$$\frac{4500}{10}$$

Inc. per year = 450

Percentage inc. per year = $\frac{450}{18000} \times 100$

= 2.5%

Q.no 6
(b)

Given

Soap Units = 600
Days = 9
Machines = 20

Find

How many units in 12 days with 18 machines = ?

Solution

Soap Units per day with 20 Machines = $\dfrac{\text{Units}}{\text{Days}}$

$= \dfrac{600}{9} = 66.67$ units/day

Soap Units per day per machine = $\dfrac{\text{Units/day}}{\text{Machines}}$

$= \dfrac{66.67}{20} = 3.33$

Units by 18 machines in 12 days = Perday/Machine × Machines × Days

Units in 12 days with 18 Machines = 3.33 × 18 × 12

$= \boxed{719.28}$ Soaps.

720

$$
\begin{array}{r}
66.67 \\
9\overline{)600} \\
-54 \\
\hline
60 \\
-60 \\
\hline
-54 \\
\hline
6
\end{array}
$$

$$
\begin{array}{r}
3.3 \\
20\overline{)66.67} \\
60 \\
\hline
6.67
\end{array}
$$

$$
\begin{array}{r}
216 \\
3.33 \\
\hline
648 \\
648 \times \\
648 \times \\
\hline
719.28
\end{array}
$$

(C)

Working

$$7\sqrt{\begin{array}{c}3.4\\25.\not{1}\\-22.5\\\hline 255\end{array}}$$

$$\begin{array}{c}3.7\\5\\\hline 13.5\end{array}$$

$$27\overline{)\begin{array}{c}690\\54\\\hline 150\\135\\\hline 15\end{array}}$$

$$\begin{array}{c}3\\45\\60\\\hline 00\\270^{x}\\\hline 2700\end{array}$$

Given

Car's distance = 450 m

  " time = 1 min = 60 s

Train's distance = 69 km = **69000 m.**

  " time = 45 min = 45×60 = 2700

Find

Ratio of their Speeds.

Solution

$$\text{Car's Speed} = \frac{\text{distance}}{\text{time}} = \frac{450}{60} = 7.5 \, m/s$$

$$\text{Train's Speed} = \frac{\text{distance}}{\text{time}} = \frac{69000}{2700} = 25.5 \, m/s$$

$$\text{Ratio of Speeds} = \frac{\text{Car's Speed}}{\text{Train's Speed}} = \frac{7.5}{25.5}_{3.4}$$

$$\boxed{\textbf{Ratio} \quad = \quad 1 : 3.4}$$

Q no 6
(d)

Perimeter of Pentagon

Given

length of one side = 15cm = 0.15m

sides of Pentagon = 5

To Find

Perimeter of Pentagon = ?
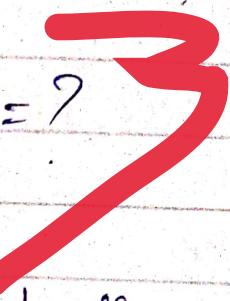
Solution

Perimeter of Pentagon = length of one side × 5

$$= 0.15 \times 5$$

$$= 0.75m \text{ or } 75cm.$$

Qno 8

(c)
Naseer Distance from A

Naseer $\xrightarrow{\text{10 Feet East}}$

A
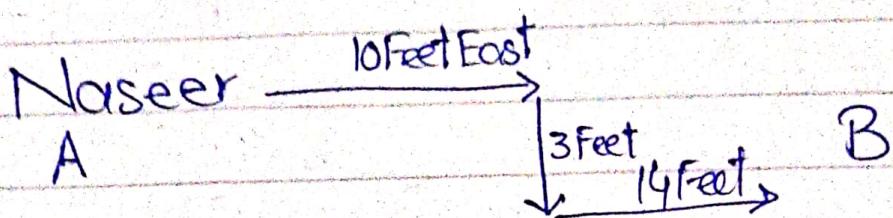
$\downarrow$ 3 Feet

14 Feet → B

Naseer is 10 Feet + 14 Feet = 24 Feet far from point A.

Moreover if we include ~~diverged~~ movement of 3 feet by ~~Naseer~~ then it would be = 27 Feet from A.

(d)

Given
Avg. temperature of a week = $33°C$
Average of first 3 days = $30°C$ ~~= 30×3 = 90°C~~
" last 3 days = ~~35°C = 35×3 = 105°C~~

Find
Temperature of fourth day = ?

Solution

Total temperature of 7 days = 33 × 7 = 231°C

Sum of first 3 days & last 3 days = 90 + 105

= 195°C

Temperature of 4th day = Sum of 7 days avg. − Sum of first 3 & last 3 days average

= 231 − 195

| Temperature of 4th Day | = 36°C |

(b)
Missing term

1, 2, 6, 21, __88__

The missing term is 88.

$1 \times 1 + 1 = 2$
$2 \times 2 + 2 = 6$
$6 \times 3 + 3 = 21$
$21 \times 4 + 4 = 88$

Working

33
$\times 7$
$\overline{231}$

231
195
$\overline{36}$

All steps ought to be written

(a)

BROTHER = ODGSNOA

SISTER =