

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 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.

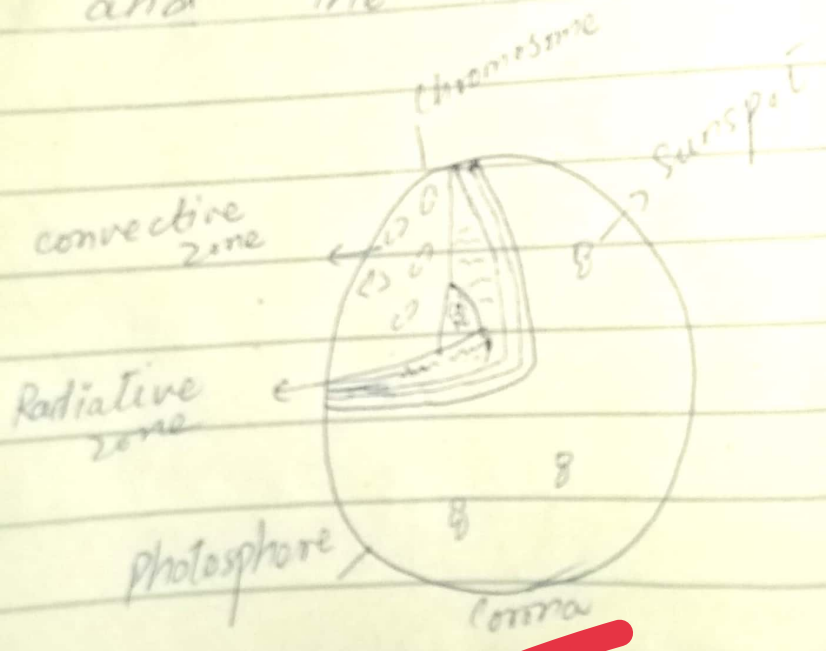
Good luck for CSS 2025. You're gonna rock in sha Allah. :)

(c)

Structure of sun:

Sun is a star. A star is a huge ball of gases, mostly hydrogen and helium. Nuclear fusion reaction inside the star release enormous amount of energy.

There are three parts of the sun's interior: The core, the radiative zone, and the convective zone.



Structure of The sun

Core:

The core is at the center. It is the hottest region where the nuclear fusion reaction inside the reaction that power the sun. It is the only section of the sun that produces heat through ~~fusion~~. The temperature is 15 million degree celcius.

Radiative zone:

The next part of the sun is radiative zone. Its name is derived from the way ~~energy~~ is carried outward through layer, carried by photons as thermal radiation.

Proper explanation is required

Convective zone:

The ~~third~~ part of the sun's interior is convective zone. Its name is derived from the way ~~energy~~ is carried outward through this layer, heat moves

through upward convection.

Q.5

(C)

Carbohydrates:

Carbohydrates are the human body's key source of energy, providing 3.9 calories of energy per gram. When carbohydrates are broken down by the body, glucose is produced. General formula of carbohydrate is $C_m(H_2O)_n$.

Types of Carbohydrates:

Carbohydrates can be classified into these following types:

- 1 Monosaccharides
- 2 Oligo saccharides
- 3 Polysaccharides.

Monosaccharides:

Monosaccharides

are often called simple sugar. They are simplest sugars and cannot be hydrolyzed. They are subdivided into trioses, tetroses, Pentoses, Heptoses etc. General formula of monosaccharides is $C_n(H_2O)_n$.

Oligosaccharides:

Oligosaccharides are compound sugars that yield upto 2 to 10 molecules of the same or different monosaccharides on hydrolysis.

General formula of oligosaccharides is $C_n(H_2O)_{n-1}$

Polysaccharides:

Polysaccharides are complex sugars yield more than 10 molecules on hydrolysis. They are further classified on the basis of molecules of monosaccharides on hydrolysis. General formula of

Polysaccharides is $(C_6H_{10}O_5)_n$ Examples?

Balanced diet:

Balanced diet is a diet which include right amount of energy like carbohydrates, vitamins, fats, minerals, lipids and dairy products for development and normal functioning of the body.

Add pie chart

"Let thy food be thy medicine".

Hippocrates

Benefits of balanced diet:

These are the benefits of balanced diet:

- 1 Meet the nutritional demands of the body and prevent malnutrition.
- 2 Maintain normal body functions.
- 3 Boost The immune system

and optimise cell repair -
↳ Prevent from diseases -

SECTION - II

Q.7

(c)

Sol:

Given: Age of 5 students = 20, 22, 21, 21, 23

Required:

Mean, median, mode = ?

Mean of 5 students age = 20, 22, 21, 21, 23

$$\bar{x} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{n}$$

$$\frac{20 + 22 + 21 + 21 + 23}{5} = \frac{107}{5}$$

$$\boxed{\text{Mean} = 21}$$

Mode of 5 students age = 20, 22, 21, 21, 23

= 20, 21, 21, 22, 23

$$\boxed{\text{Mode} = 21}$$

Median of 5 students age = 20, 22, 21, 21, 23

$$= 20, 22, 21, 21, 23$$

$$\boxed{\text{Median} = 21}$$

Mean, Mode, Median of 5 students
age = 21 **Ans:**

Range?

(b)

Circumference of a circle

$$C = \pi d$$

$$d = 2r$$

$$d = 2(4\text{cm})$$

$$d = 8\text{cm}$$

$$C = \pi d$$

$$C = (3.14)(8\text{cm})$$

$$\boxed{C = 25.12\text{cm}} \text{ Ans}$$

Q.8:

(a)

Brother is written as = QDGSNGA
SISTER is written as = ?

Sol:

SISTER is written as = QDSRHR

(b)

Write all steps

Missing term: 1, 2, 6, 21, —

Sol

$$1 \times 1 + 1 = 2$$

$$2 \times 2 + 2 = 6$$

$$3 \times 6 + 3 = 21$$

$$4 \times 21 + 4 = 88$$

Missing number = 88

Missing term = 1, 2, 6, 21, 88 Ans