

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 2025. You're gonna rock in sha Allah. :)

(b)

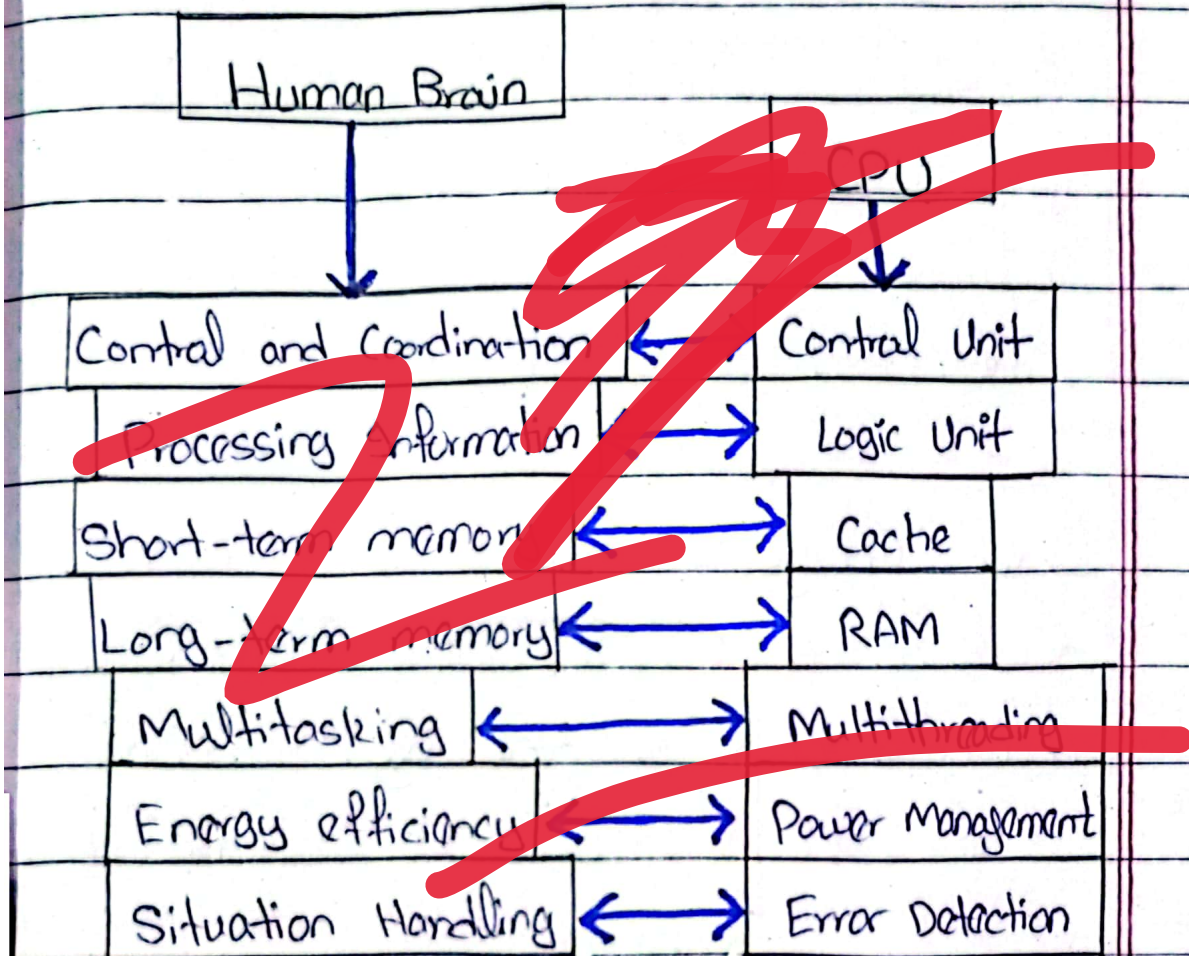
CPU:

⇒ A central processing unit (CPU) is the primary functional component of a computer.

⇒ The CPU is an assemblage of electronic circuitry that runs a computer operating system and apps and manages a variety of other computer operations.

⇒ CPU is often compared to the human brain due to its ~~crucial role~~ in controlling and coordinating functions.

⇒ Here's a flow chart to illustrate how the CPU resembles the human brain in its working.



(c)

Balanced Diet:

A Balanced diet is a diet which includes right amount of all the nutrients such as proteins, vitamins; minerals, fats, carbohydrates etc. for proper growth, development and proper functioning of the body.

→ A balanced diet is a diet required for the growth and development of a person especially the children. A balanced diet has direct relation with the health of a person.

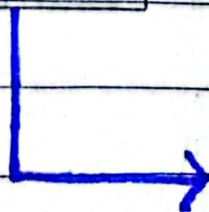
→ The energy requirement is measured in terms of calories. The calorie requirement depends on the age, gender, height, weight, occupation and state of health.

"Let thy food be thy medicine"

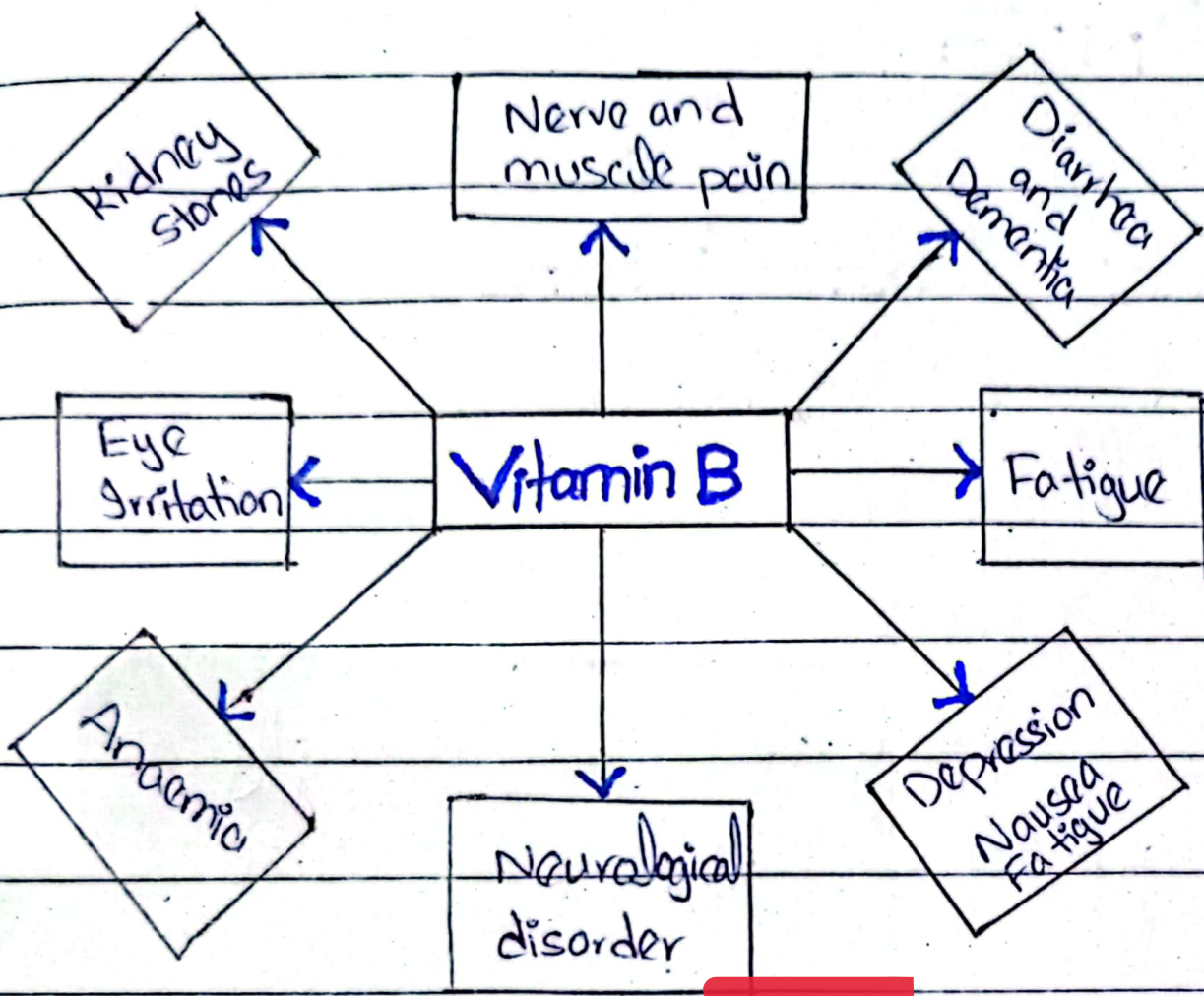
Hippocrates

→ Deficiency of Vitamin A, B and C:

Vitamin A



Night blindness
Permanent blindness
High dose can lead to bone fractures and birth defects



Vitamin C

Breakdown of skin, blood vessels and teeth.

QNO3:

(a)

Ans. Chemical bond

→ Atoms form chemical bonds in order to make their outermost shells complete and more stable. The type of chemical bond maximizes the stability of the atoms that form it.

→ An ionic bond is formed when one atom essentially donates an electron to another atom in order to complete their outermost shell. In the result one atom becomes stable by losing its outer electron and the other atom becomes stable by (filling its valence shell) gaining electron.

⇒ While covalent bond is formed when sharing of electron take place between two atoms. And this results in the highest stability.

⇒ Covalent bond in a Water molecule:

Water molecules are already stable due to the polar covalent bonds within the molecule. A water molecule consists of **Diagram?** two hydrogen atoms bonded covalently to one oxygen atom. The oxygen atom shares electrons with the hydrogen atoms to form these covalent bond.

(d)

Ans: Polio:

⇒ Polio is a highly infectious disease caused by a virus. It invades the nervous system and can cause total paralysis in a matter of hours.

⇒ Initial symptoms are fever, fatigue, headache, vomiting and stiffness in the neck and pain.

Eradication of Polio in Pakistan:

⇒ There is much need to stop this infectious disease from Pakistan

but recently the only prevention from this disease is vaccine. Immunization with polio vaccine is the best way to prevent polio

⇒ There are two types of vaccine that protect against polio:

Inactivated Polio Vaccine (IPV)
and Oral Polio Vaccine (OPV)

(b)

Ans. Doping

Doping refers to the use of banned substances in competitive sports. The process of adding some impurities like impurity atoms in a pure semiconductor so as to increase the conductivity of a semiconductor.

Types of Ceramics:

There are two major types of Ceramics traditional and advanced ceramics.

