

Dos and Don'ts for the General Science & Ability Paper

Hi there – you've prepared well!

Remember, knowing the content is one thing, but presenting it in the paper exactly as required is another. Here are a few key points to keep in mind:

QUESTION 04
Answer # 01

1. For a 5 mark part, aim to write at least 2 and at most 3 sides of the answer sheet.

Often, a question has two or three parts, and the marks are divided accordingly – so address each part fairly.

2. Manage your time wisely – you have about 35 minutes per full question, which comes down to around 8 minutes for each 5-mark part. Stick to this to avoid rushing later.

- Role of Heart

Heart receives deoxygenated blood

3. Make your answers look scientific, not just theoretical. Use flowcharts and diagrams wherever they add clarity.

4. Neatness matters – keep your

- Role of Blood vessels
Handwriting clean, avoid cutting or overwriting.

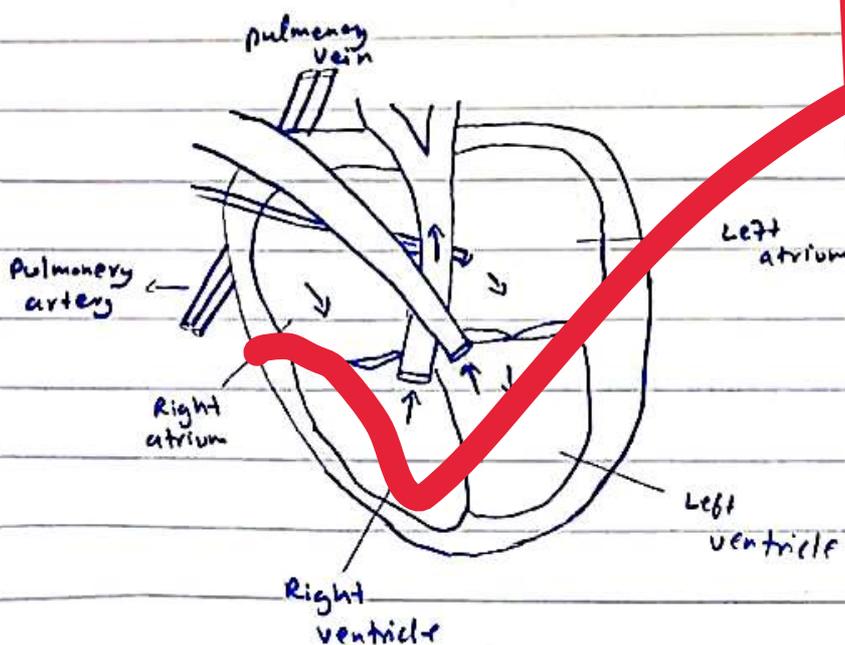
5. Mind your spelling and grammar – while GSA doesn't deduct marks for these, your expression leaves an impression.

- Functioning of Blood vessels and Heart

6. In the ability portion, explain analytical ability questions in words. For a 5 mark part, show all steps and provide clear explanations.

Good luck for CSS 2026 – you're going to ace it, in sha Allah! ✨

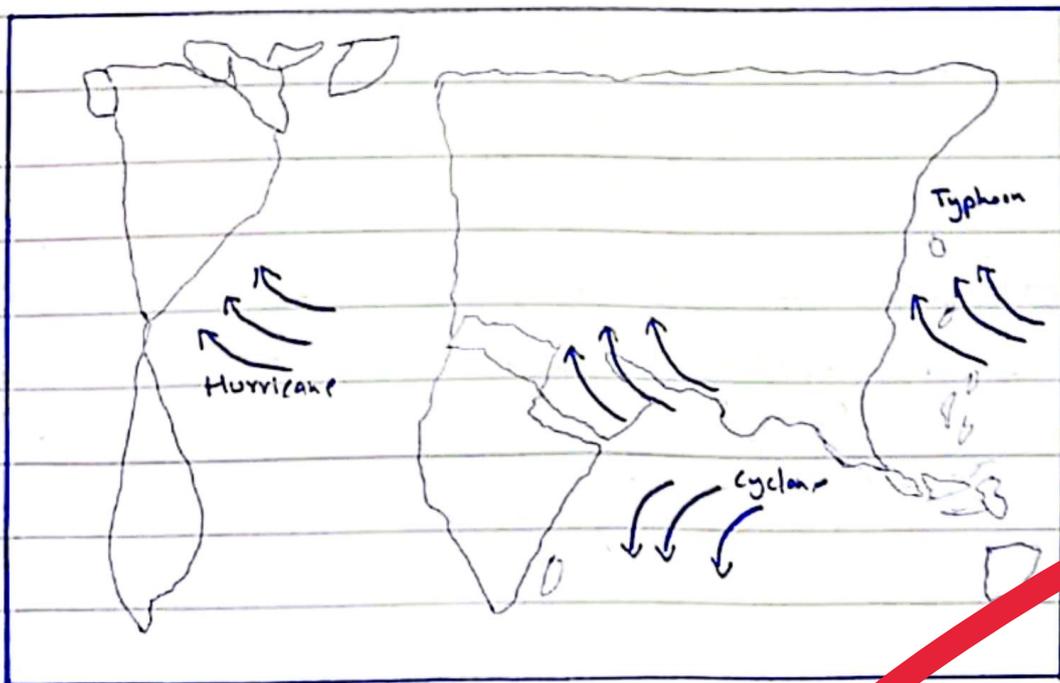
all four chambers of heart. The blood moves next to (pulmonary right ventricle, where tricuspid valves stop and hinder the back flow of blood. Blood then send to the lungs where it take oxygen and remove carbon dioxide. The oxygenated blood enters in the left atrium of the heart. The bicuspid valves separate left atrium and left ventricle, also prevent back-flow of blood. From left ventricle blood is transported to the rest of body via aorta. Vessels carry deoxygenated blood towards heart and arteries carry oxygenated blood away from heart



Answer # 02 (B)

Cyclone

Cyclone is a natural phenomenon with its origin on water. It moves anti-clockwise in North and clockwise in South. It has different names according to origin. It is known as 'Hurricane' in North towards USA, 'Typhoon' near Japan and 'Cyclone' in Indian ocean and South Pacific.



Formation of Cyclone

It is formed on large water body, when air pressure is low

and temperature rises to 26°C . The vapours and hot air moves upward. It creates a vacuum which is filled by cold air. The hot air gain more energy and create more space for cold air. The speedy shift between the two leads to a disastrous circular moving cyclone. In USA, average 60 people dead per year due to cyclone. It destroys whatever comes in its way when it reaches near shore. However, it loses its energy on land and also causes destruction and flood.

Answer # 03 (c)

Carbohydrates

- 1- Carbohydrates help in functioning of body by providing sugar and support nervous system.
- 2- It is stored in form of glycogen in animals and starch in plants.
- 3- It helps in formation of new tissues.
~~It stor~~ (It makes cell wall in plants.)^a

⇒ Proteins

- 1- Keratin protein help in formation of nails and hair.
- 2- It involves in forming different structures.
- 3- It forms cell wall in plants.

⇒ Fats

- 1- Fats / lipids store different minerals and vitamins in body.
- 2- Brown fat provide heat and manage the temperature of the body.
- 3- It stores vitamins A, D, E, K and use them when needed. Example: Vitamin K is essential for blood clotting.

⇒ Calcium

- 1- Calcium provides strength to the bones and maintain structure of body.
- 2- It provides strength to the muscles.

⇒ Iron

- 1- Iron is a source of energy and it is present in green vegetables.
- 2- It participates in functioning of brain and fight with fatigue and laziness.

Answer # 04 (D)

⇒ Remote sensing:

It is a technique to achieve information (gain) about different objects. Every surface reflect, absorb or emit energy differently. In this process, energy is applied either natural (sun) or artificial and sensor is used to detect the energy absorbed or reflected.

It consists of energy source, sensor, graph or picture formation, analyzing and solution.

⇒ Remote sensing and environmental purpose

Remote sensing is used for different environment related purpose.

In Forestry: It can detect thickness or deforestation easily to help in policy formation.

Disaster management: It is used to analyze circumstances after flood, earthquake and devise plan accordingly.

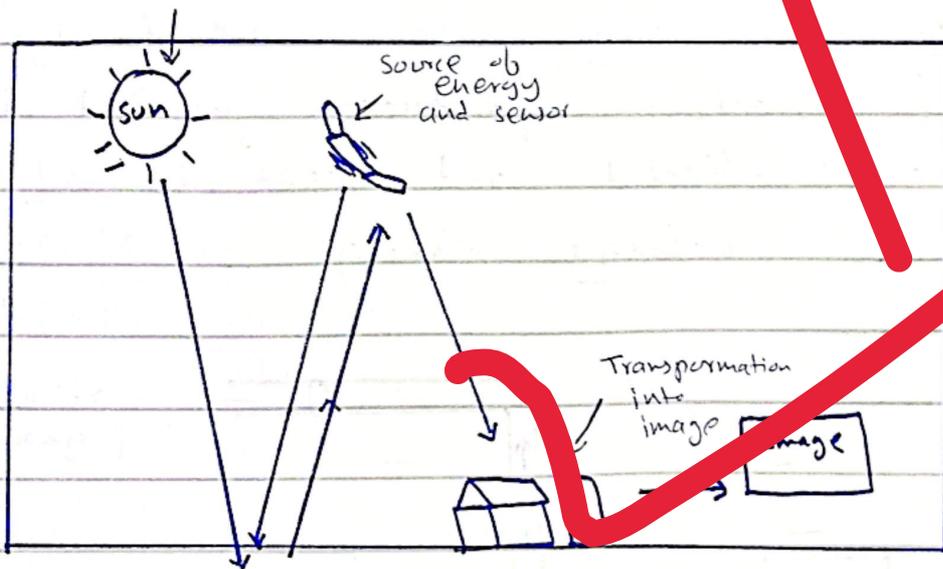
Hilly areas: It is useful for difficult terrains, which can not be analyzed

easily and specifically on hilly areas which are usually not feasible for research.

Soil degradation: For large agriculture land, it detects the condition of soil. It help in finding soil degradation and soil erosion.

It can also be used to detect harmful radiations, without human intervention and with harmful radiations.

source of energy



QUESTION # 05

Bio fuels:

Biofuels are the fuels which are organic in nature usually, they

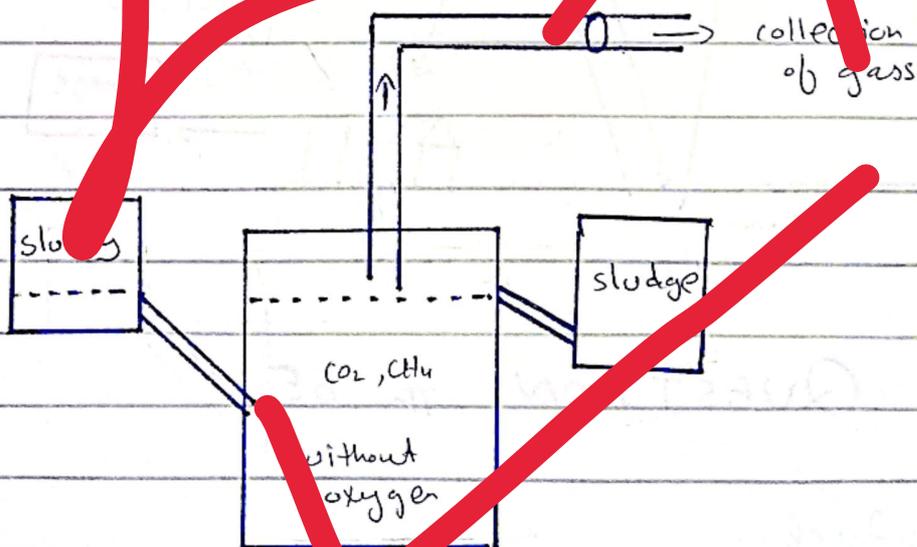
are used to make energy.

Biofuels include all living masses, it can be of animal waste, vegetable, livestock etc.

Production of Biodiesel and Biogas

Biodiesel and biogas both are generated by using organic mass of animal or plant.

Biogas is produced in vacuum by adding slurry and without oxygen the reactions produce gas. It is then collected and used for different purpose including cooking.



Biodiesel is also produced by using biological material. Bioethanol contains $\frac{2}{3}$ of the energy given by diesel. Brazil and USA are major producer of it. It is mixed with diesel to reduce greenhouse gas emission.

D)

Plastics

Plastics are the long carbon chain connecting, polymers. They are carbon in nature. One type of plastic even contain 200,000 carbon atoms chain.

Application / Properties

- 1- They are rust free
- 2- Plastics are electric insulator
- 3- These are cheap to produce
- 4- They can be transparent
- 5- Plastics come in many shapes and colours.
- 6- Plastics can be reused by heating, reshaped indefinitely

Environmental Risks

- 1- Plastics can not degraded like other organic molecules.
- 2- Plastics are major source of pollution. eg: oceans are polluted with plastics.
3. Harmful chemical used in its construction can be added in food and lead to diseases.
- 4- Plastics polluting water and creating water scarcity.
- 5- It is harmful for wildlife and ~~ocean~~ fishes in water

c)

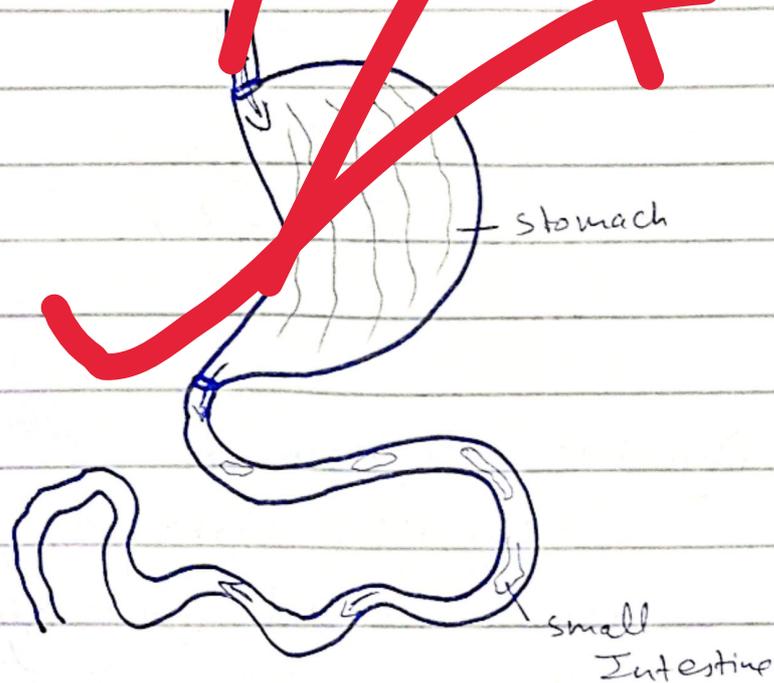
Digestive System

Digestive system is the collection of organs involved in digestion of food. Stomach is a J-shaped organ which is mainly responsible for digestion.

Role of stomach and small intestine

Stomach receives food from oesophagus. The walls of stomach produces chemicals which digest the food.

The movement of walls of stomach and the liquid soften all kind of food. It is too powerful to dissolve even hard material taken in food. Small intestine is responsible for the absorption of liquid from the food. The major absorption takes place here. It has few part including, duodenum, Jejunum, Ileum.



QUESTION # 07

Answer

A)

$$40 \cdot \frac{1}{3} = 2/3$$

$$40 = 66.6$$

$$40 : 66.6$$

$$20 : 33.3$$

B) C)

$$\text{Son} = n$$

$$\text{Father} = n + 24$$

In 2 years:

$$\text{son} = n + 2$$

$$\text{Father} = n + 24 + 2$$

Equation:

$$2(n + 2) = n + 24 + 2$$

$$2n + 4 = n + 26$$

$$2n - n = 26 - 4$$

$$n = 22$$

Present age of son = 22

D)

$$\text{Rashid} = 6 \text{ hr} - 32 \text{ pg} = \text{Pg. } 5.33 \text{ per hr}$$

$$\text{Kamran} = 5 \text{ hr} - 40 \text{ pg} = \text{Pg. } 8 \text{ per hr.}$$

$$\text{Total page} = 110$$

Kamran pg per hr Rashid pg per
hr

$$8 + 5.33 = 13.33$$

Collectively they take almost 8 hr
to complete 110 pages

$$\text{Kamran writes} = 64 \text{ pg}$$

$$\text{Rashid writes} = 42.64$$

so they will take 8 hrs and few
minutes to complete 110 page.

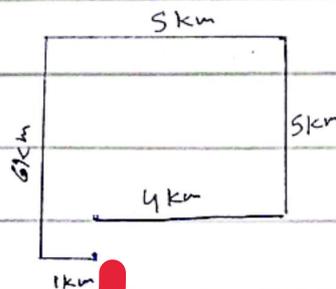
Question # 0

A)

DBA EC

so, A is in the middle

B)



- 1) 1 km away from the place started
- 2) While finishing, running towards North
- 3) After second turn, running in south.

4) Run west to reach starting point.

c)

a) skirt

b) coat

d) skirt

d)

to clear triangles. while,
total 18.