

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

Hi there – you're 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.

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.

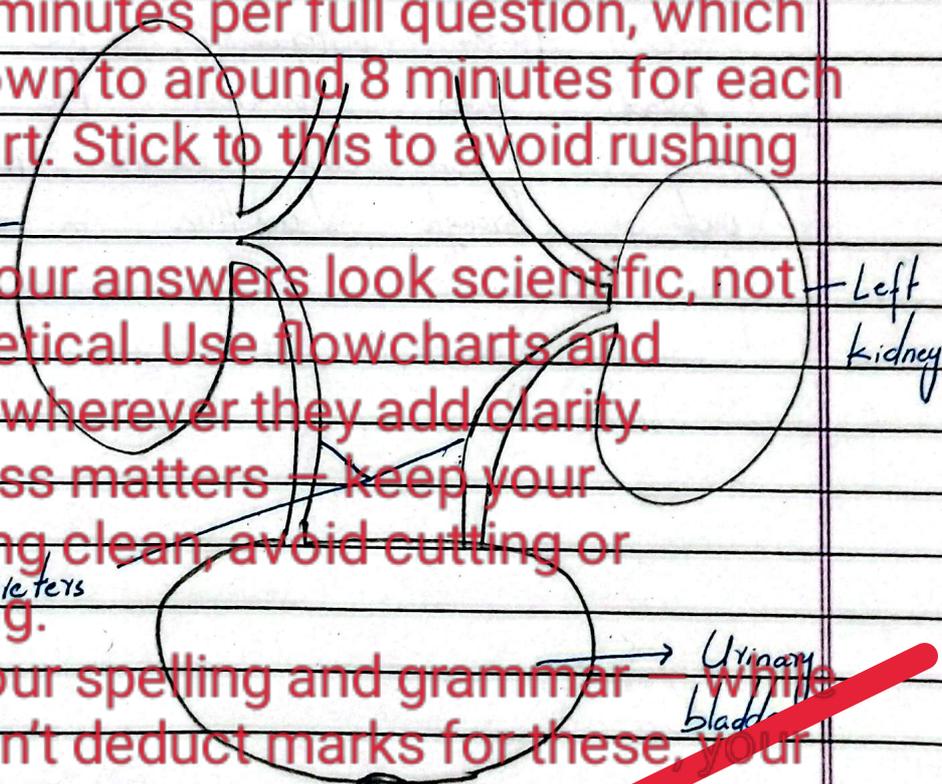
3. Make your answers look scientific, not just theoretical. Use flowcharts and diagrams wherever they add clarity.

4. Neatness matters – keep your handwriting clean, avoid cutting or overwriting.

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

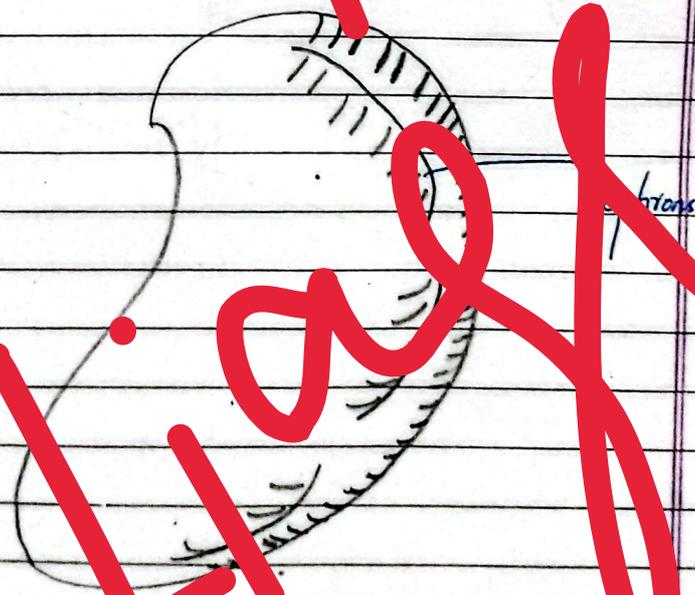
6. In the ability portion, explain analytical ability questions in words. For a 5-mark part, show all steps and provide clear explanations.

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



### Working of nephron

Nephrons are functional unit of the urinary system. There are at least 2 million nephrons in the human kidney. The main function of nephron is to filter out the blood and remove waste in the form of urine. Through renal artery, the filtered blood comes in the kidney, where the glomerulus of nephron the actual filtration of blood takes place. After filtration, the filtered blood goes towards the body, and remaining waste is removed out through ureter in the form of urine.



C.

Answer

An un-balanced diet is defined as intake of inadequate food required for the body to function properly.

How unbalanced diet affects the healthy living.

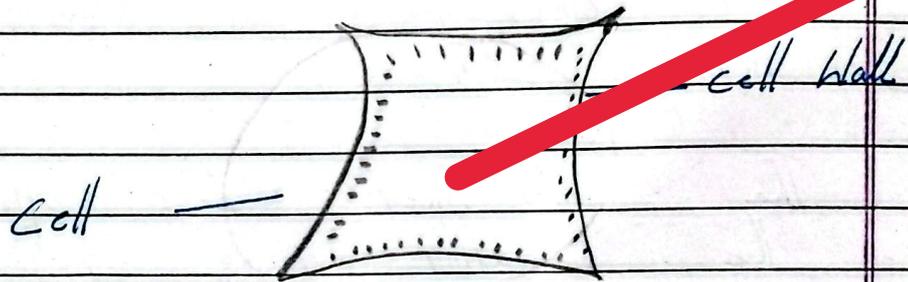
The unbalanced diet affects the healthy living significantly. Due to unbalanced diets, the healthy human is trapped in numerous life taking diseases. Firstly, due to unbalanced diet, the brain does not function properly. Secondly, the living being is tired all the time. Thirdly, the bones of the living being are weak due to osteoporosis. Fourthly, the living being is tend to become lazy all the time. Fifthly, the living suffers from numerous diseases, such as anemia. Finally, the living being becomes mal-nourished & under-nutritioed. Hence, this is how unbalanced diet affects the healthy living.

D.

Answer

## Cell Wall

Cell wall is the outer most wall of the cell. It is responsible for giving shape and protection to the cell.

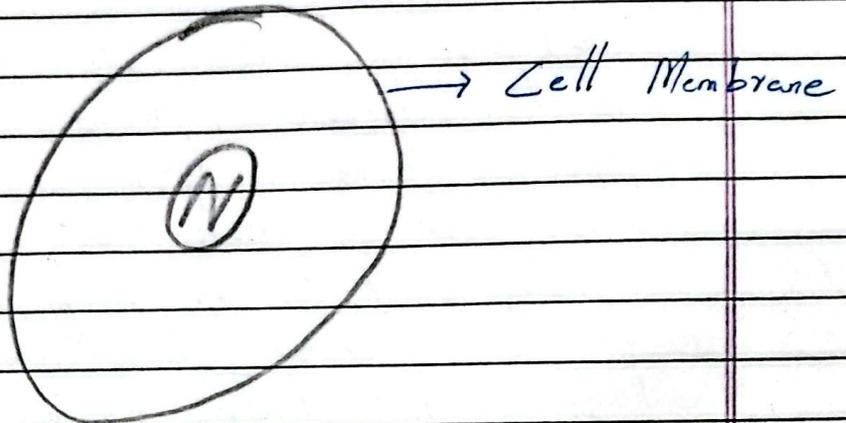


## Cell Membrane

Cell membrane is the outer most wall of the animal cell, but in plants cell, it is inside the cell wall.

It is known as semi-permeable membrane. It is best explained through the model of Fluid Mosaic, which explained the function of this membrane. The reason, why this membrane is called as semi-permeable because it allows certain minerals and nutrients to pass through it.

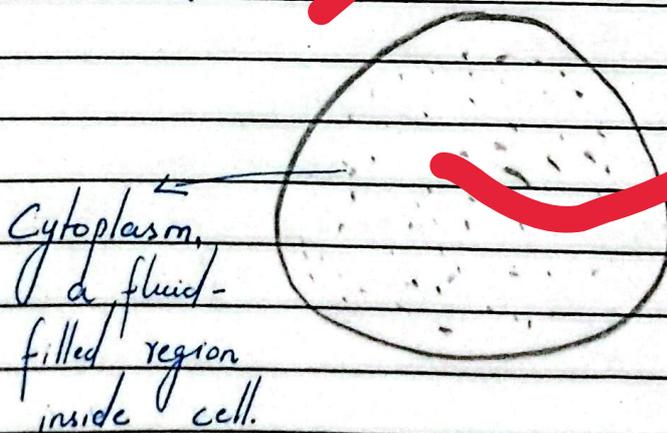
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## Structure of cell membrane

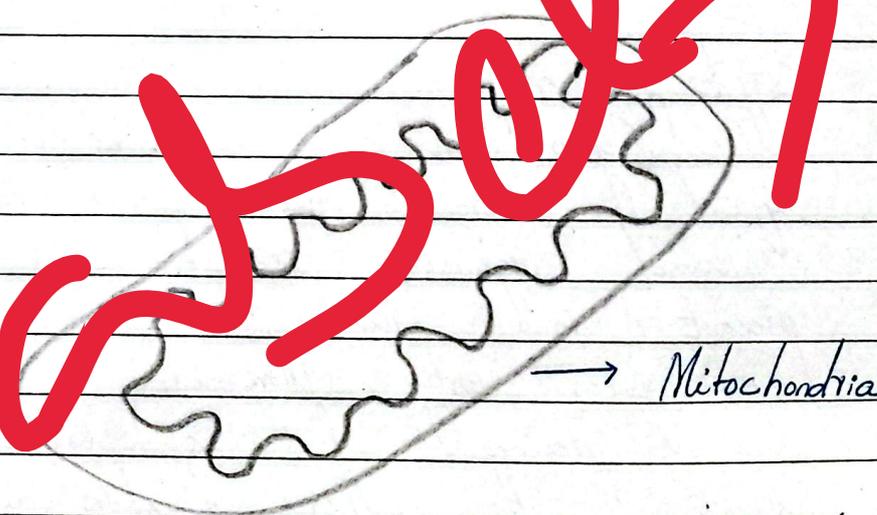
### Cytoplasm

Cytoplasm is a fluid-filled liquid where the membrane bound organelles reside. It is present in the cell of eukaryotes only. Moreover with the presence of cytoplasm inside cell, all organelles of the cell take shape & position according to their function.



## Mitochondria

Mitochondria is a ~~two~~ membrane-bound organelle present inside the cell. The primary function of the mitochondria is to produce ATP, an energy currency, to provide energy to the body. It is also known as the powerhouse of the cell.



## Structure of the Mitochondria

A.

## Answer

According to the big bang theory, the universe was formed over 2 billion years ago. The structure of the universe is complex according to big bang theory. It has millions of galaxies. Moreover, there is presence of black hole where the gravitational pull is the highest. Furthermore, the galaxy in which the living being live is the milky way galaxies. The Milky Way galaxy has its own solar system, where there are eight planets and each planet has its own satellites known as moon. The planet in which living things can survive is the Earth where life can only exist. It is also known as the blue planet due to the presence of seventy percents of water.

Q: 04

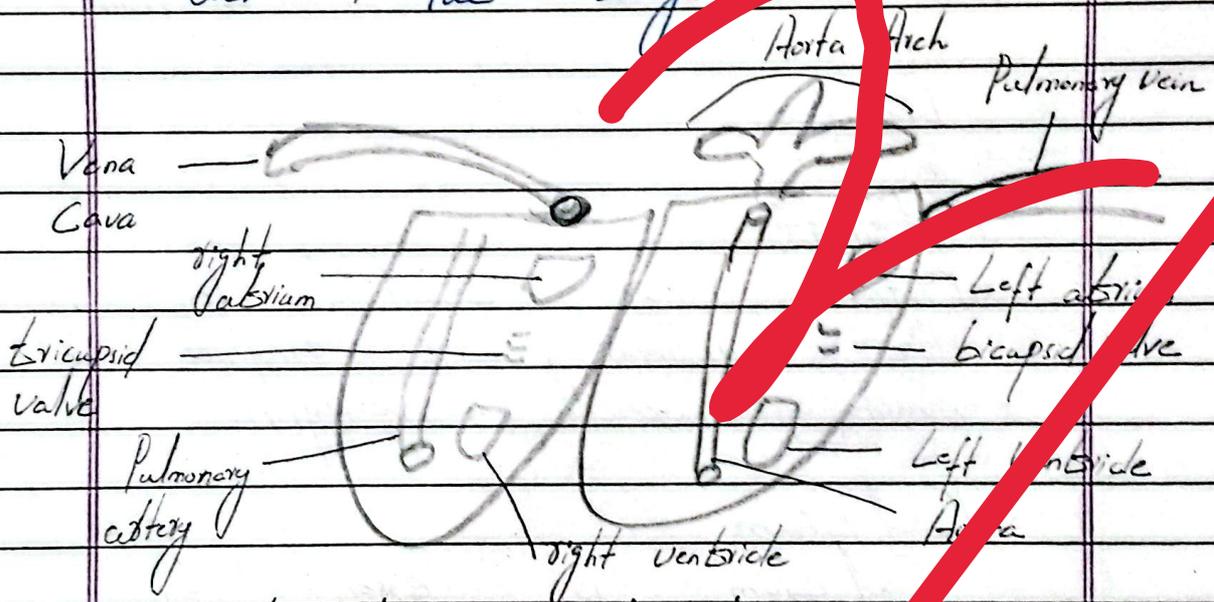
A.

## Role of Heart and Blood Vessels in Circulation

Heart is known as the pumping organ of the body as it circulates the blood all over the body with the help of blood vessels. The largest vein Vena Cava takes the deoxygenated blood from the body to the heart. Then, with the contraction of Vena Cava, the blood is transferred to right atrium, and with the contraction of right atrium the blood transferred to right ventricle, where the presence of tricuspid valve prevents the backflow of the blood. With the contraction of right ventricle, the pulmonary artery takes the blood towards lungs for oxygenation. Then the pulmonary vein takes oxygenated blood towards the heart, where the left atrium receives it. With the contraction of right atrium, the blood is transferred

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to left ventricle where the presence of bicuspid valve prevents the backflow of blood. With the contraction of the left ventricle, the blood is received by aorta, where aorta arch transfers the blood to all over the body.



Structure of the heart and blood vessel

C.

Answer

## Carbohydrates

Carbohydrates are essential for the working of brain and mental well-being. 3.9 calorie is gained from the one gram of carbohydrates.

## Proteins

Proteins are essential for the synthesizing of enzymes, which are bio-catalysts.

## Calcium

Calcium is essential for the strong bones and teeth. The presence of calcium prevents osteoporosis and weakening of teeth.

## Iron

The primary function of the iron is prevent anemia in the children and adults. Furthermore, iron helps in transport of haemoglobin in the blood.

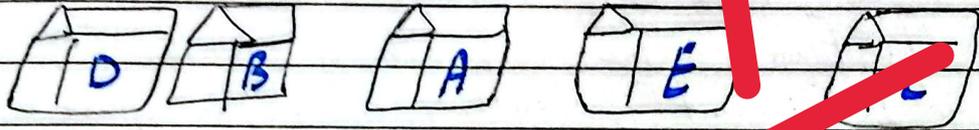
## Section - B

Q: 08

A.

Answer:

From the following sequence, the sequence wise position of each house is opposite to each is blow;



Therefore, the house which is in the middle of the following row of houses is A.

B.

How many kilometers are you from the place you started?

Only 1 kilometer away from the place I started.

In which direction will you be running while finishing?

While finishing, I will be running in the North direction.

After taking the second turn, in which direction will you be running?

After taking the second turn, I will be running in the South direction.

From the finishing points if you have to reach the points from where you started, in which direction will you have to run?

From the finishing point I want to reach the point from where I started, I will run in the direction of West.

C.

Answer

- a) THRI\$ → SHIRT
- b) AOTC → COAT
- c) EOUBSL → BLOUSE
- d) KTRIS → SKIRT
- e) RETAEWS → SWEATER

The correct one from the following is SKIRT as it is worn on the lower part of the body; however, SHIRT, COAT, BLOUSE, SWEATER are worn on the upper part of the body.

D,

**Answer**

Formula to find the number  
of triangles;

$$n \times 2$$

The  $n$  number of triangles  
in the figure ~~base~~ is 22.

Therefore,  $n = 22$

Hence,  $22 \times 2$

$$= 44$$

The number of triangles  
in the figure is 44.

Q: 06:

**Answer**

The relationship between Ahsan  
and a woman that  
woman is the mother  
of Ahsan.