Date:_____ Day:_____

Section - B

Q: NO: 06

Ans Part: A:
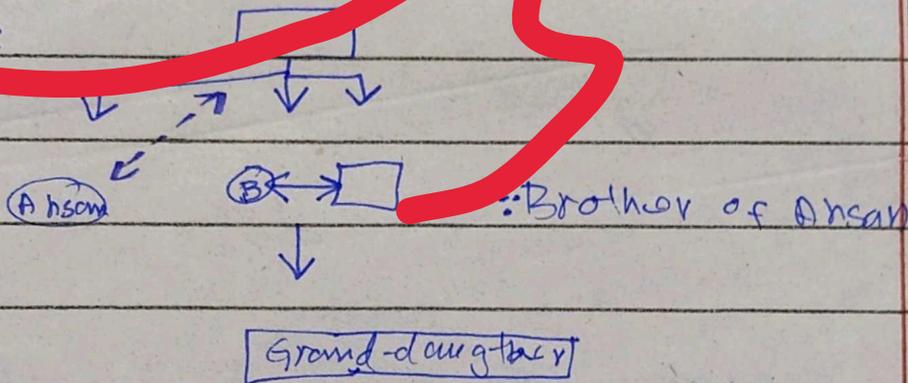
Ahsan ⬭ = boy

☐ = Girl

An unknown women ahsan Doing at her:

∴ Brother of Ahsan

Grand-daughter

So,

Ahsan has direct relation with a women who is the mother.

Part : B

Ans Ration between length and breadth of a rectangle Park is = 3:2

Mom covers it by cycling in 8 minutes with the speed

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:

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 flow charts and diagrams wherever they add clarity.

4. Neatness matters — keep your 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.

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! ⭐

Handwritten annotations:

Date: _____

② (circled)

of 1 presenting

Now,

Area of 5 parts = ?

So, mean covering 12 km/h.
and he covers per minute = ?

Chasy the theoretical. use flow charts and
into minutes flow

$1000 \times 12 = 12000$ meters

$60 \times 1 = 60$ minutes

Now, the covers the park boundary
And he covers the park boundary

in 8:
8 minutes by in a

$\text{so} = (1600 \text{ meters})$

In order to find the length and breadth of park:

$3:2 \qquad 2+3=5$

$\dfrac{3}{5} \times 1600 = \boxed{960}$ length

$2/5 = 1600 = \boxed{640}$ Breadth

Now finding Area of a park:

$Area = 2(L+B)$
$= 2(960+640)$
$= 2(1600)$
$Area = 3200$

Hence Area of rectangular park is $\boxed{3200}$

- Part : C

Supposing the first digit as $= x$

Supposing 2nd digit which exceed 2 as $= x+2$

Product of those two digits is $= 144$

Now, the number $= ?$

Addition of first two

digits $= x + x + 2$

$$2x + 2$$

$$2x = -2$$

$$x = -2/2$$

$$\boxed{x = -1}$$

Now putting a two digit number in the x.

↳ The first two digit number is $= 10$

↳ And second which exceed it by $x + 2 = 10 + 2 = 12$

Now their product is equal $= 144$

$$x(x+2) = 144$$

$$x^2 + 2x = 144$$

$$x^2 + 2x - 144$$

$$\because (a-b)^2 = a^2 + b^2 - 2ab$$

Now putting the first digit + 2nd values:

$$(10)^2 + 2(12)^2 - 2(10)(12)$$

$$100 + 2(144) - 2(120)$$

$$100 + 288 - 240$$

$$2x = 240 - 100$$

$$x = 140/2$$

$$\boxed{x = 70} \quad \text{First Digit}$$

And now second:

$$\cancel{x^2 + x}$$

$$70 + x = 144$$

$$x = 144 - 70$$

$$\boxed{x = 74}$$

Their sum is:

$$70 + 74 = 144$$

D: Part:

Two numbers LCM = 48

Supposing the numbers : x, y

Their ~~state~~ ratio is $= 2:3$

Their mum is = ?

Finding the first number

$$\frac{x + y}{48} = \frac{x^2 + y}{48} = \frac{x^2}{48} + \frac{y}{48}$$

$$\Rightarrow \frac{y}{48} = -\frac{2}{48} \Rightarrow y = -\frac{2}{48} \times 48$$

DATE: _____   DAY: _____

$$\boxed{y = -2}$$

And now x:

$$\frac{x+y}{48} = \frac{x+3}{48}$$

$$\frac{x}{48} + \frac{3}{118}$$

$$\frac{x}{48} = \frac{-3}{48}$$

$$x = \frac{-3}{48} \times 48$$

$$\boxed{x = -3}$$

Now their sum:

$$x + y = -2 + (-3)$$
$$= \boxed{-5}$$

Q: NO: 07

→ Part : A

↳ 40% of number $= x \cdot 40\%$

↳ Two/third of another number $\frac{2}{3}x$

↳ Ratio of first to another $= ?$

Making an equation:

$$x \, 40\% = x \frac{2}{3}$$

$$x \times \frac{\overset{2}{40}}{\underset{5}{100}} = x \, \frac{2}{3}$$

$$x \times \frac{2}{5} - x \frac{2}{3} = 0$$

$$\frac{2x}{5} - \frac{2x}{3} = 0$$

$$\frac{6x - 10x}{15} = 0$$

$$\frac{-4x}{15} = 0$$

$$x = \frac{15}{4}$$

$$\boxed{x = 3 \cdot 75}$$

Now putting value

$$x \times \frac{40}{100} = x \, \frac{2}{3}$$

$$\frac{15}{4} \, \cancel{3.75} \times \frac{\overset{2}{40}}{\underset{5}{100}} = \overset{15/4}{\cancel{3.75}} \times \frac{2}{3}$$

$$\frac{\overset{3}{\cancel{15}}}{\underset{2}{\cancel{4}}} \times \frac{\overset{1}{\cancel{4}}}{\cancel{5}} = \frac{\overset{5}{\cancel{15}}}{\underset{2}{\cancel{4}}} \times \frac{x}{3}$$

$$\frac{3}{2} = \frac{5}{4}$$

$$\boxed{1.5 = 1.25}$$

↳ Also can be written o

1.5 ÷ 1.25

→ Ponit : B

ⓑSelling 17 balls at 720

loss = The price of 5 balls

A ball's price = ?

7/ 17

Finding the price of
Five
one ~~ball~~ balls loss.

720/17 = 42.35

Now, Finding the
price of one
ball: 42.35/5 =

= $\boxed{8.47}$

Rough Work

42.35
17) 720
       68

        40
        34

        60
        51

        90
        85

        05

  4
 3
  17
  6

  85

  102

→ Ponit : C

Mom & His son Ages

Past:

Present: Mom = x

Son = $x + 24$

Future: After 2 years:

Mom = $2 + x$

Son = $2 + (x + 24)$

Now, Decoding the equation:

$x + 2 = 2[2 + (x + 24)]$

$x + 2 = 2[x + 26]$

$x + 2 = 2x + \cancel{48}\,52$

$x + \cancel{48}\overset{50}{} = 0$

$\boxed{x = \overset{-50}{\cancel{46}}}$

Now putting the value:

Son = $2 + ((-50) + 24))$

$= 2 + -26$

$\boxed{= -24}$

And his father's age

x + 2

-50 + 2 = $\boxed{48}$

so ages of them is

$\boxed{24}$ & $\boxed{48}$

→ Part : D

Hours,	Pages
6	32

Rashid:

↳ $6x + 32y = 0$

Kamran:

↳ $5x + 40y = 0$

Now, changing hours into minutes

$6 \times 60 = 360$

$5 \times 60 = 300$

Rashid:

↳ $360/32 = 7.72 \boxed{11.2}$

Kamran:

↳ $300/40 = \boxed{7.5}$

Now if both work together

$$11.2 + 7.5 = 18.5$$

$$\frac{11.2}{18.5} \times 110 = \boxed{66.5} \rightarrow Rashid$$
minutes

$$\frac{7.5}{18.5} \times 110 = \boxed{41.6} \text{ Karim}$$
minute

Now adding both

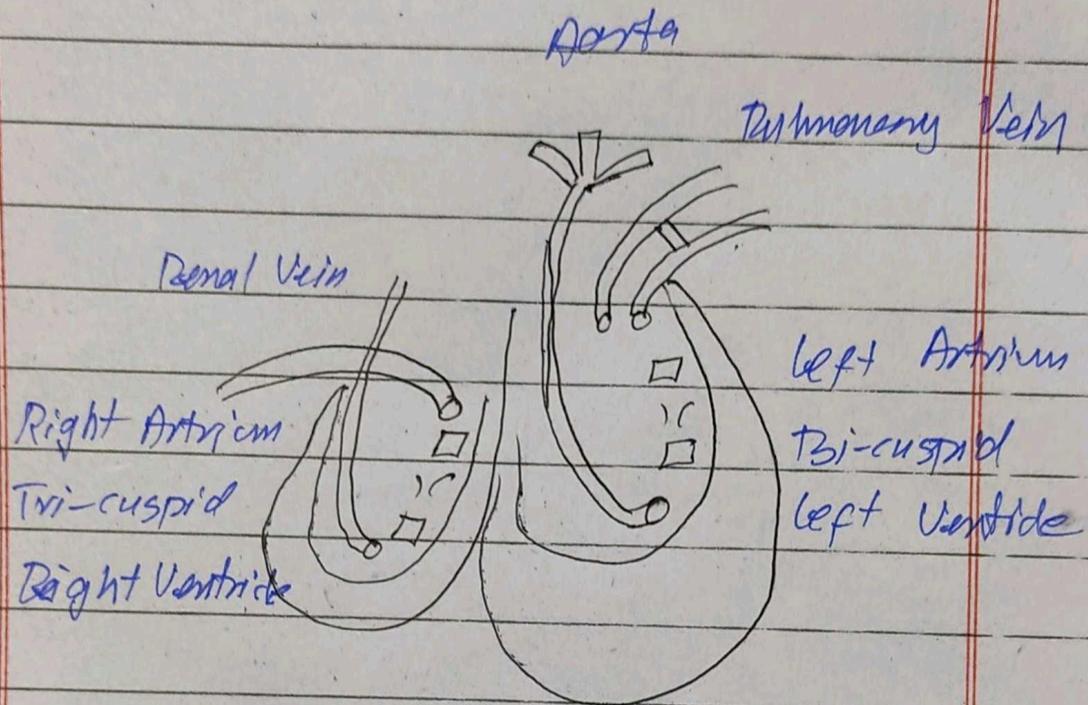$$66.5 + 41.6 =$$
108.1 minutes

Section-A

Q: NO: 4

A: → Role of Heart &
   Blood Vessels

I: Heart :

   Heart is an important
   organ functioning in human

body as machine of pumping and blood supplier.

Aorta

Pulmonary Vein

Renal Vein

Right Atrium

Tri-cuspid

Right Ventricle

Left Atrium

Bi-cuspid

Left Ventricle

II: Role of Heart in Circulation:

↳ Renal Vein: It brings the blood of whole body to heart.

↳ Right Atrium to Right Ventricle Circulation

Right atrium recieves the blood pushes it by the contraction of heart to farther right

ventricle which pushes it to pulmonary vein.

➡ **Pulmonary to Lungs:**

It takes blood to lungs for oxygen.

➡ **Pulmonary to Heart:**

The oxyginated flows back to heart through it

➡ **To left Ventricle from left Atrium:**

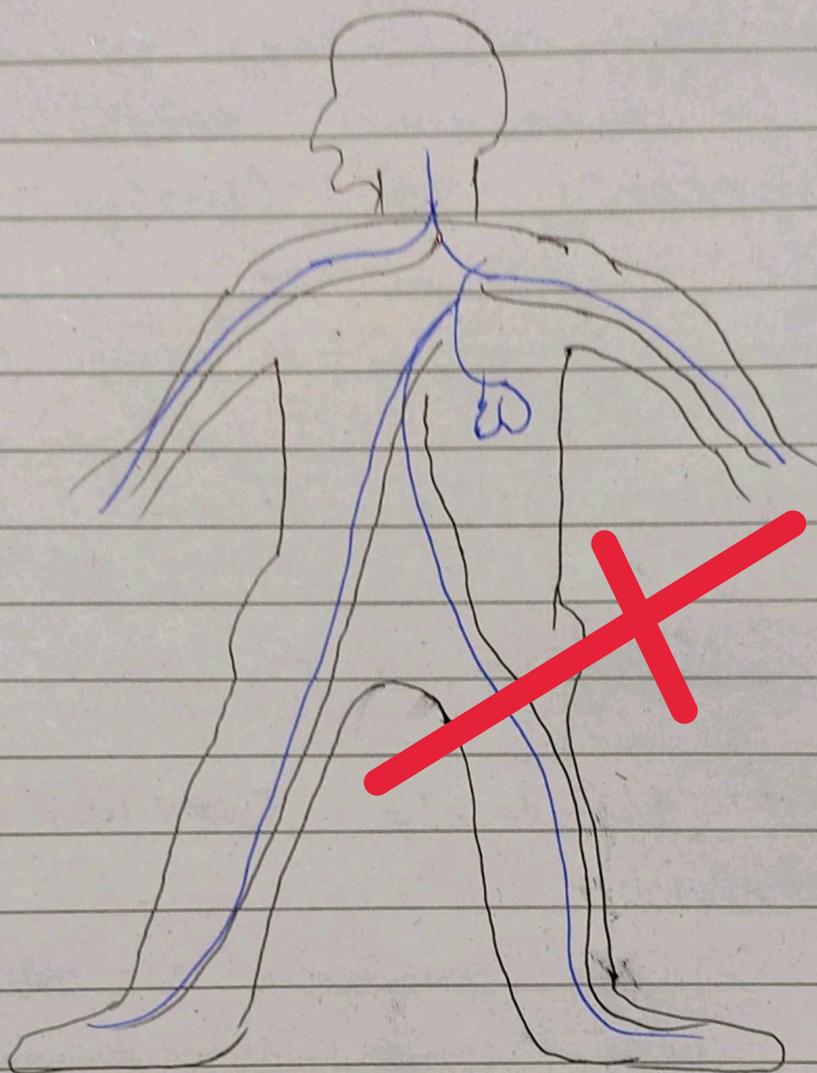It pushes the blood to left ventricle by the contraction of heart.

➡ **Distribution of Aorta**

Aorta further is divided to send and distribute through blood vessels.

Role of Blood Vessels In Human Body:

b) Distribution of Blood:
Blood vessels like net in human body distribute blood to whole body.

b) Carry De-Oxyginated Blood Back:
It further carries back the de-oxyginated blood to heart.

↳ **Capillaries :**

Vessels are divided into micro-level veins which distribute the blood to cells and small tissues.

Conclusion:

Human heart and blood vessels both play important role. Heart is responsible for pumping and distribution through vessels. Vessels take containing to cells and carry back the de-oxyginented to heart.

→ **Part : B**

Cyclone:

cyclone is a whirling wind containing powerful air, rain and

thunderstorms in sea.

Eye

Anti-Clock-wise Cold Air

Eye-wall

Worm Air

A'Clock-wis
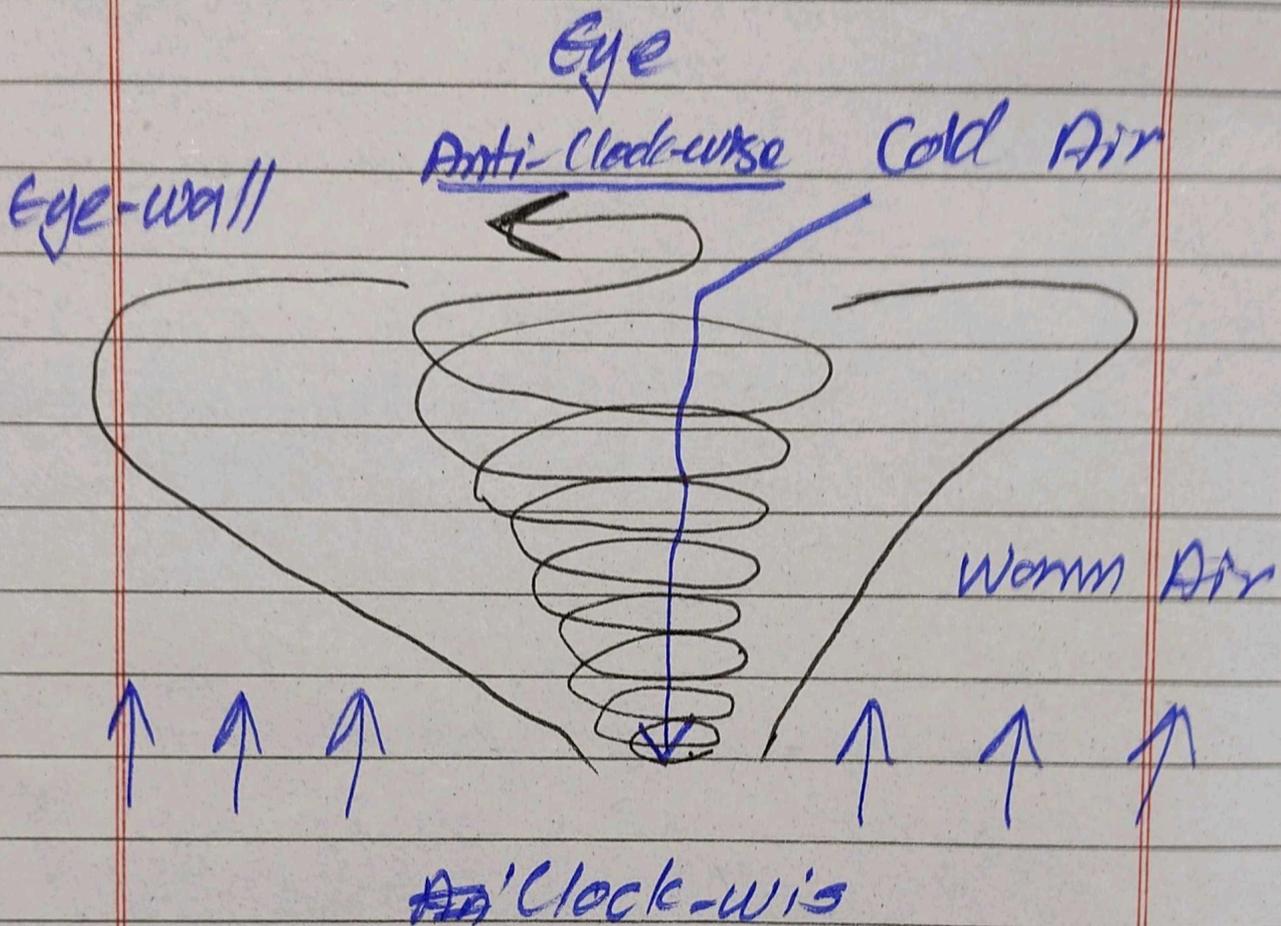
Formation of Cyclon:
↳ Worm Air and Vaporation:
When heat vaporizes air and water to above cold air-It makes a vacuum.
↳ Worm Air Replacing Cold Air Above.
It goes up and replaces the cold air above.

→ Cold Air Coming Down:

It replaces the warm air place, left vacuum down there.

↳ Coriolus Effect:

The motion causes a spin between the airs clockwise.

↳ Fast and Dongorous Movement of Cyclone:

The spinning and movement becomes too fast and even dangerous.

Dongorous Level:

↳ Too fast and Rigid Can Cause Fatalities:

The cyclones are spinning fast which can cause several threats

↳ Weather Variations Leading to Cloud Burst:

It leads to a sudden and abrupt change of in weather.

⤷ **Prone to Catastrophes to Near Coastal Areas:** It causes disasters to the vicinity due to its fast spinning.

⤷ **Extreme Thunderstorms Can Cause Deaths of Birds or Humans:** extremely dangerous thunders occure and cloud bursts which can lead to endanger the animals or human near to it.

Conclusion:

Cyclones are natural. They are part of it. However, its occurance can cause severe threats to animals,

humans and causes
environmental changes

→ Pont : C
Functions of Carbo-
Hydrate:

↳ Energy Source
They are major
nutrients in body
which as a major
source of energy.

↳ Muscle Building:
They work as
key factor in building
the muscles of human
body

↳ Maintains Neural
Functions & Kidney
and other Major
Organs:
Further the
maintain the functions of
mind, kidney and heart.

↳ **Maintains Body Temperature:**

They also maintain the temperature of human body.

Function of Protein:

↳ **Major Source of Energy:**

Protein is an imminent part for body as energy.

↳ **Tissue & Muscle Building:**

It builds muscle and gives growth to the muscles in body.

↳ **Human Growth:**

It plays a key role in human growth and nourishment.

↳ **Maintain Functions of Body Organs:**

A It enables human organs to maintain their function.

Functions of Fats:

⇨ **Maintainse Temperature:**
Lipids keep human body temperature to align with the atamosphere for survival.

⇨ **Insolin Production:**
It produces insolin as well in human body which function as a source of energy.

⇨ **Reserved Energy:**
It works as reserved army when the body lacks energy, it replaces other energies

⇨ **Source of Energy for Body:**
Majorly, it is a key source of energy for the overall growth.

Functions of Calcium:

↳ Strengthens Bones:
Calcium plays key role in strengthening bones in body.

↳ Joints Function
It makes joints strong to function well for easy movement.

↳ Teeth Strengthening:
It also helps to strengthen the activity of teeth and make them strong.

→ ~~IRON functioning~~

↳ Production of RBC:
Iron help in strengthening the red-blood cells.

↳ Increase Immune System:
It exacerbates the strength of human body system.

↳ Protects from Anaemia:
It keeps safe a person from having anaemia disease.

→ Part : D

Remote Sensing:

Remote sensing collects, saves, stores, analyzes and then displayes the data. It is a computing system.

Sun

Satellite

Earth
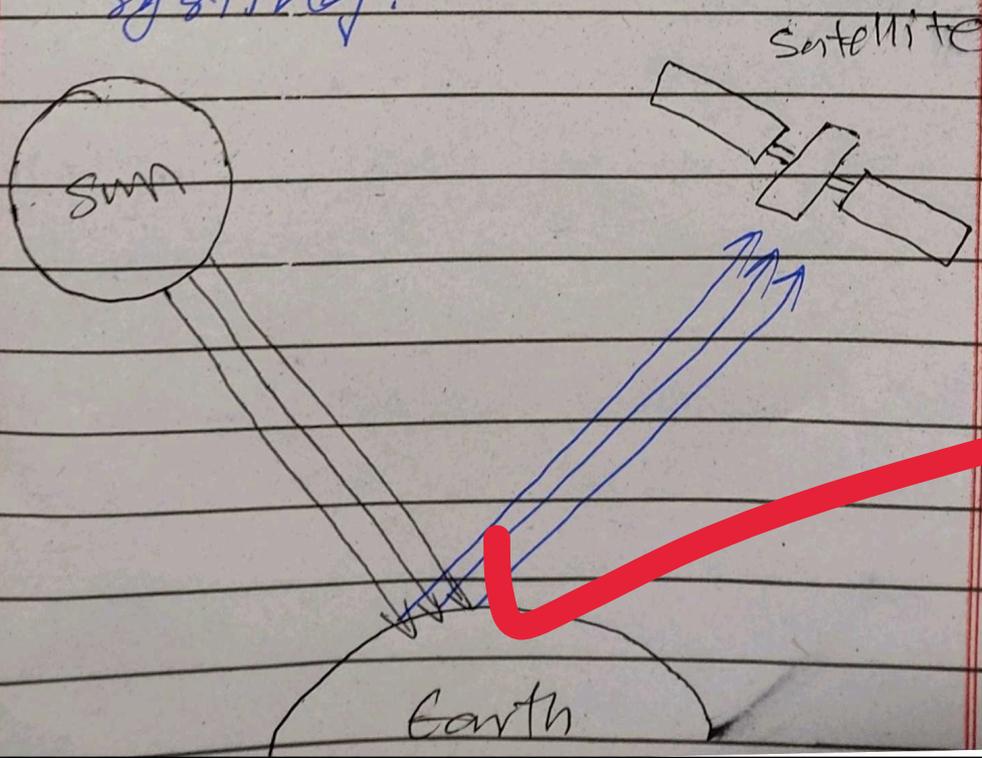
Remote Sensing For Environmental Usage:

↳ Natural Disaster Management:

It can be used to monitor natural catastrophes in advance.

↳ Early Prediction:

It can foretell the threats to ensure safe environment.

↳ Flood Monitoring:

It alarms about flooding as before the hand.

↳ Weather Forecast:

It further tells about the weather.

↳ Environmental Changes:

It can predict environmental changes and also display the causes.

Conclusion:

Remote sensing is computing system which analyzes the data taken or recieved from electromagnetic waves from it has a pivotal role in environmental changes and natural catastrophes.

Q: No: 02

→ Part : A

Structure of Univers According to Big-Bang Theory:

Big-bang theory holds a significant role about the universe structure and strata. Fred Hoyle termed it as
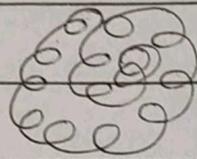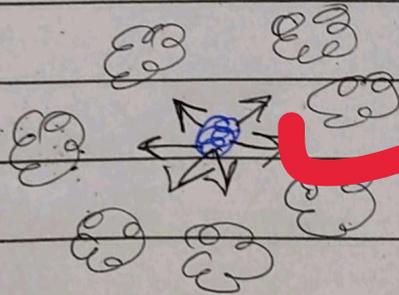
"Big Bang" meaning a big-blast. Lamaitre gave the theory.

→ Point of Singularity:

Before Big-Bang, everything was densed and was in a single ball.

→ Blast & Expansion

At a certain point, the ball blew and made a super blast where all parts were blown and expansion started.

⤷ **Formation of Galaxies & Stars:**

At this stage the stars and Galaxies started formation.

⤷ **Age of Universe:**

⤷ **CBM**

According to this method of analyzing the left waves tell about 13.8 b years

⤷ **Radio-magnetic waves:**

Radio-magnetic waves are still found on the earth. It suggest almost 12-13 b years.

⤷ **Old Stars:**

Stars must be older then univers. Scientists ~~analyze~~ the age of oldest stars and take idea about the age of univers.
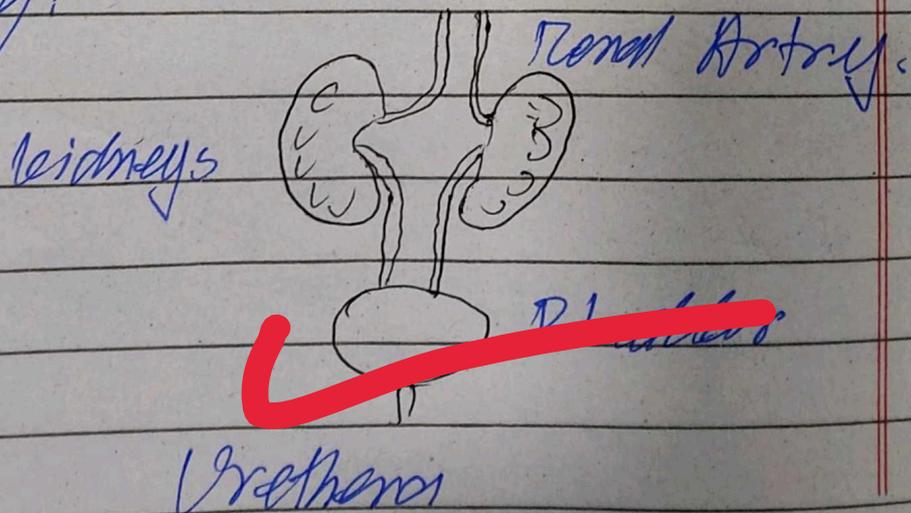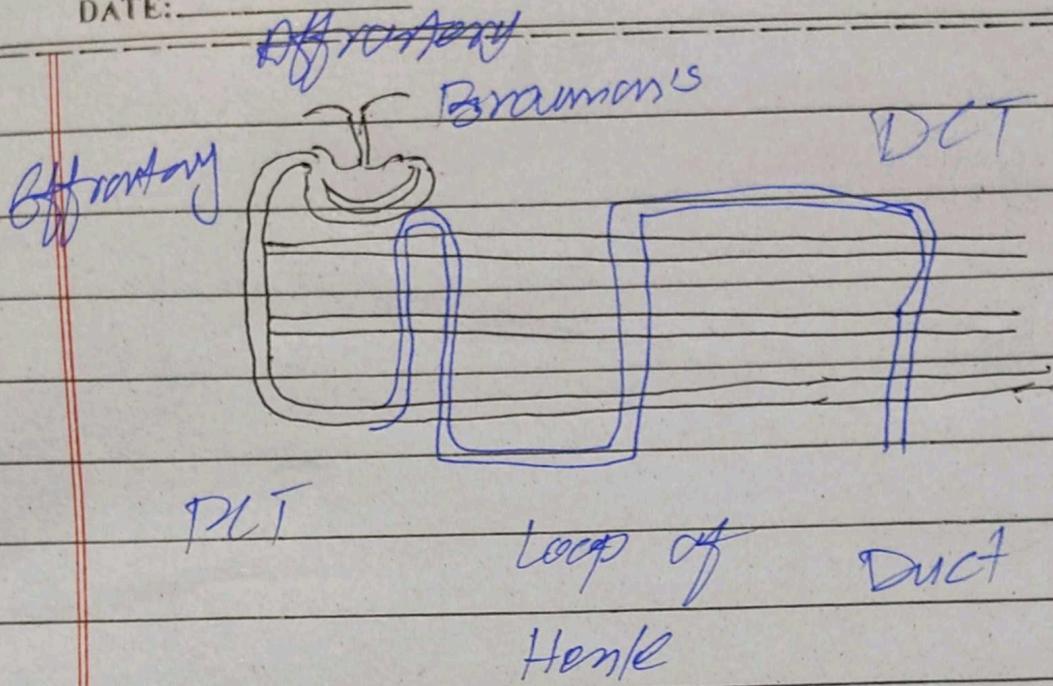
Conclusion:

Drifting theory gives an unique picture of universe telling about the structure of universe.

→ Part : B

Urinary System & Function of Nephron:

Urinary systems excretes out the urine from blood. Kidney in body play pivotal role through nephrons in toking out the urine from body.

Renal Artery.

kidneys

Bladder

Urethera

Efferent / Afferent — Bowman's — DCT

PCT — Loop of Henle — Duct

Functions of Nephron:

↳ Bowman's: Afferentry vein pushes the blood to Bowman's to filter urine from it.

↳ Efferentary to PCT: After Bowman's, rest to sent to PCT by efferentary vein for further filtration.

↳ PCT to Loop of Henle: PCT further passes the blood through bende of loop.

↳ Henle loop to DCT: It further passes the blood to final duct for filtration.

Function of Urinary System:

↳ **Afferutory Vein:**

It takes blood to kidney for urine excretion.

↳ **Kidney Filtration:**

Kidney takes out the urine from blood and sends it to bladder.

↳ **Bladder as Storage:**

Bladder stores it till the time it's needed to be excreted.

↳ **Excretion Through Urethora:**
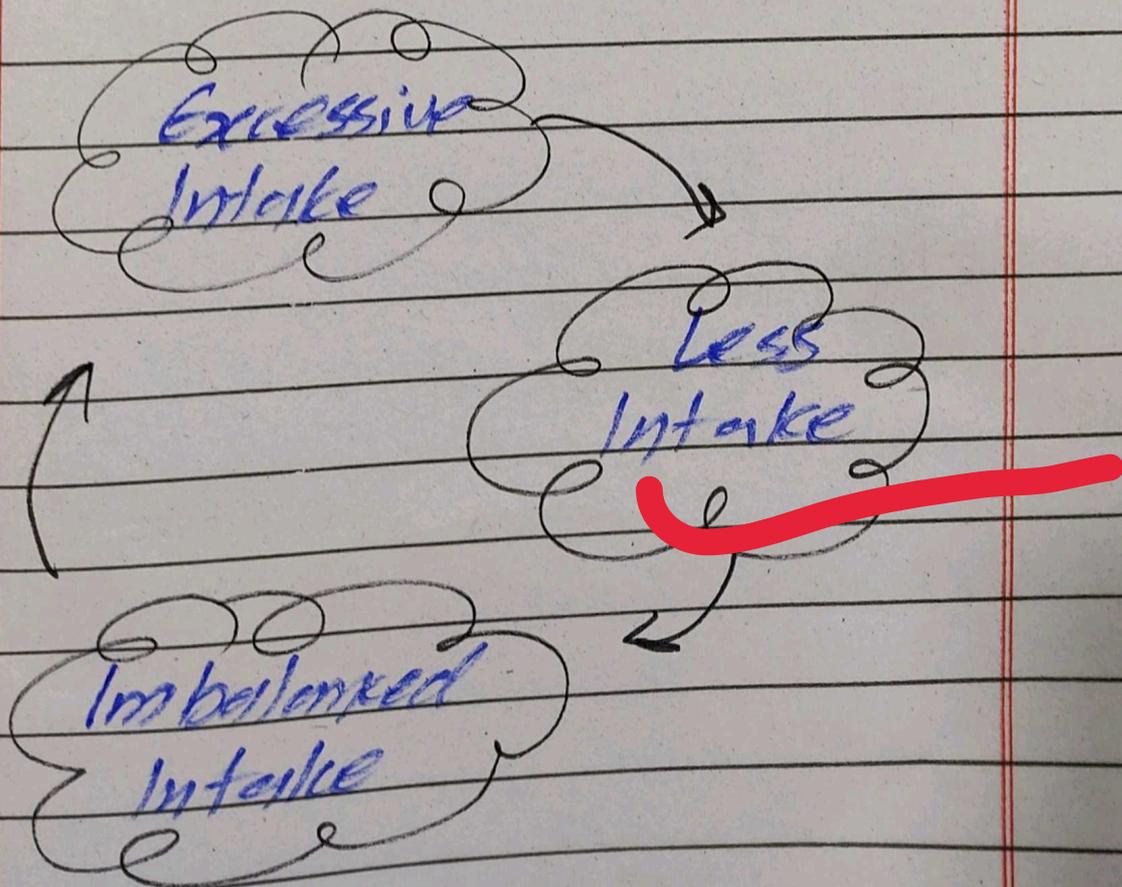
It is small opening through which urine is excreted.

Conclusion:

Urinary system is a major part of human system to clean and filter the wast from human body.

Part : C

Un-Balanced Diet:

Unbalanced diet reffers to the intake of over food, less than required or intake of food without the proper proportion of each.

Excessive Intake

Less Intake

Imbalanced Intake

Effects on Human Body:

→ Disease Chances:
It causes and invites several diseases in human body which affect a person badly.

→ Disturbed Growth:
It hinders the nourishment of a person.

→ Organs Disfunctioning:
It can lead to disfunctioning of an organ in body.

→ Heart Failures:
It leads to heart issues like cover intake of fats.

→ Neural Issues:
It cause neural and mental health issues due to lack of required food intake.

Conclusion:

Unbalanced diet is a ladder to human body organs destruction. It has to be monitored for healthy growth of health of a body.

Part : D

Structure of Cell:
Its a basic unite of human life in his body which contains several parts.

Human Body
Cell

Cell Wall →

Nucleus

→ Mitochondria
→ Cytoplasm
Protein → → Ribosomes
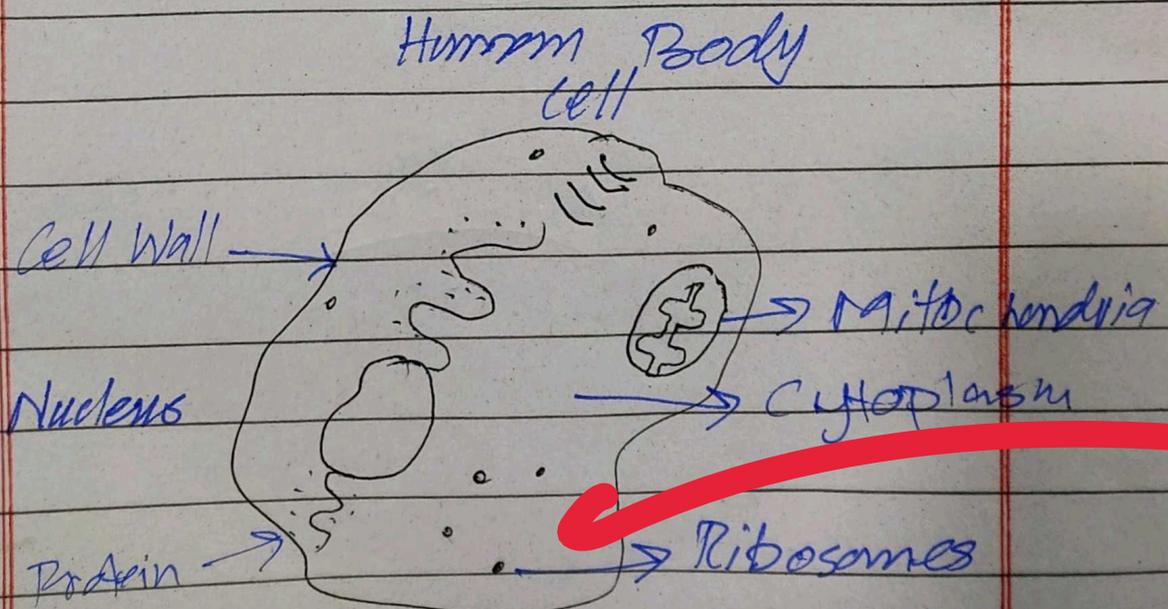
Function of Cell Parts:

↳ Cell Wall

a: Protection
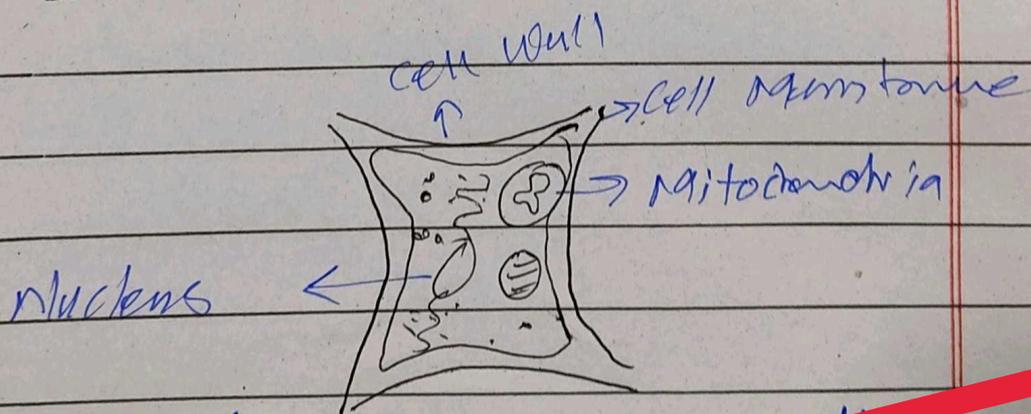
   It protect cells from external stuff not to enter.

b: Shap of a Cell

   It provide a specific shape to a cell.

c: Excretion of Waste:

   It takes out the waste as well from cell.

↳ Cell Memberan

Cell Wall
→ Cell Membrane
→ Mitochondria
Nucleus ←

↳ Found Only Plant Cell:

   It can be seen only in plants cell.

↳ Protection:

   It protects a cell

from external thing-

↳ Shape:

It also make a specific shape of a cell.

↳ Cytoplasm:

↳ Ground For Cell Parts:

It is a room to all parts of cell inside.

↳ Carrier of All Cell Parts:

It has and contain all parts of cell.

↳ Protects From Imbalance:

It protects every parts from other not to integrated or imbalanced.

↳ Mitochandria:

↳ Excretes The Waste:

It helps to through away the waste of a cell.

DATE:_____ DAY:_____

↳ **Oxygination:**

Cell take oxygen from mitochendria. It functions as a respiratory system of a cell.

Conclusion:

Cell is a basic unit of life. It contain various part. Every part functions in different and various work. It is the primary unite of a body.

The End.