

CISA - No A - MOUC - 2026
final

Day: _____

Date: 3/01/25

Section B
Question - 7

Q.7 A

(A, $40\% x = \frac{2}{3} y$)

$$\frac{40}{100} x = \frac{2}{3} y$$

$$\frac{120}{200} x = y$$

$$\frac{12}{20} x = y$$

$$\frac{x}{y} = \frac{20}{12} \times \frac{5}{3}$$

$$\frac{x}{y} = \frac{5}{3}$$

5 : 3 Ans

five is to 3 is
the ratio of
first number to
second number

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Q. 7 B.

B.

$$17B = 720$$

$$17x = 720$$

$$\text{Loss} = \text{S.P} - \text{C.P}$$

$$\text{SB} = 17B - \text{C.P}$$

$$\text{Cost Price} = 17B - \text{SB}$$

$$= 42B$$

$$\frac{720}{12} = 60$$

$$\boxed{\text{Cost price} = 60} \text{ Ans}$$

$$\begin{array}{r} 42.3 \\ 17 \overline{) 720} \\ \underline{68} \\ 40 \\ \underline{34} \\ 60 \\ \underline{51} \\ 90 \end{array}$$

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Q.7

Ans

first, find how many
3 pages together type
in 1 hour

$$\frac{32}{6} + \frac{48}{5}$$

$$\begin{array}{r} 5.33 \\ 6 \overline{) 32} \\ \underline{30} \\ 20 \\ 18 \\ \underline{20} \end{array}$$

$$\frac{32}{6} + \frac{8}{1} \quad \text{take LCM}$$

$$\frac{32}{6} + \frac{48}{6}$$

$$\frac{80}{6}$$

Now how much time to type 110
Pages hour Pages
 $\frac{40}{3}$ 1
110 x

$$\frac{40 \times}{3} = 110$$

$$40 \times = 330$$

$$x = 8.25 \text{ hours}$$

to type 110 pages Ans

$$\begin{array}{r} 8.25 \\ 4 \overline{) 33} \\ \underline{32} \\ 10 \\ 8 \\ \underline{8} \end{array}$$

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Question 8

A.

B A → Condition 1
A E C → Condition 2
D B → Condition 3

hence:

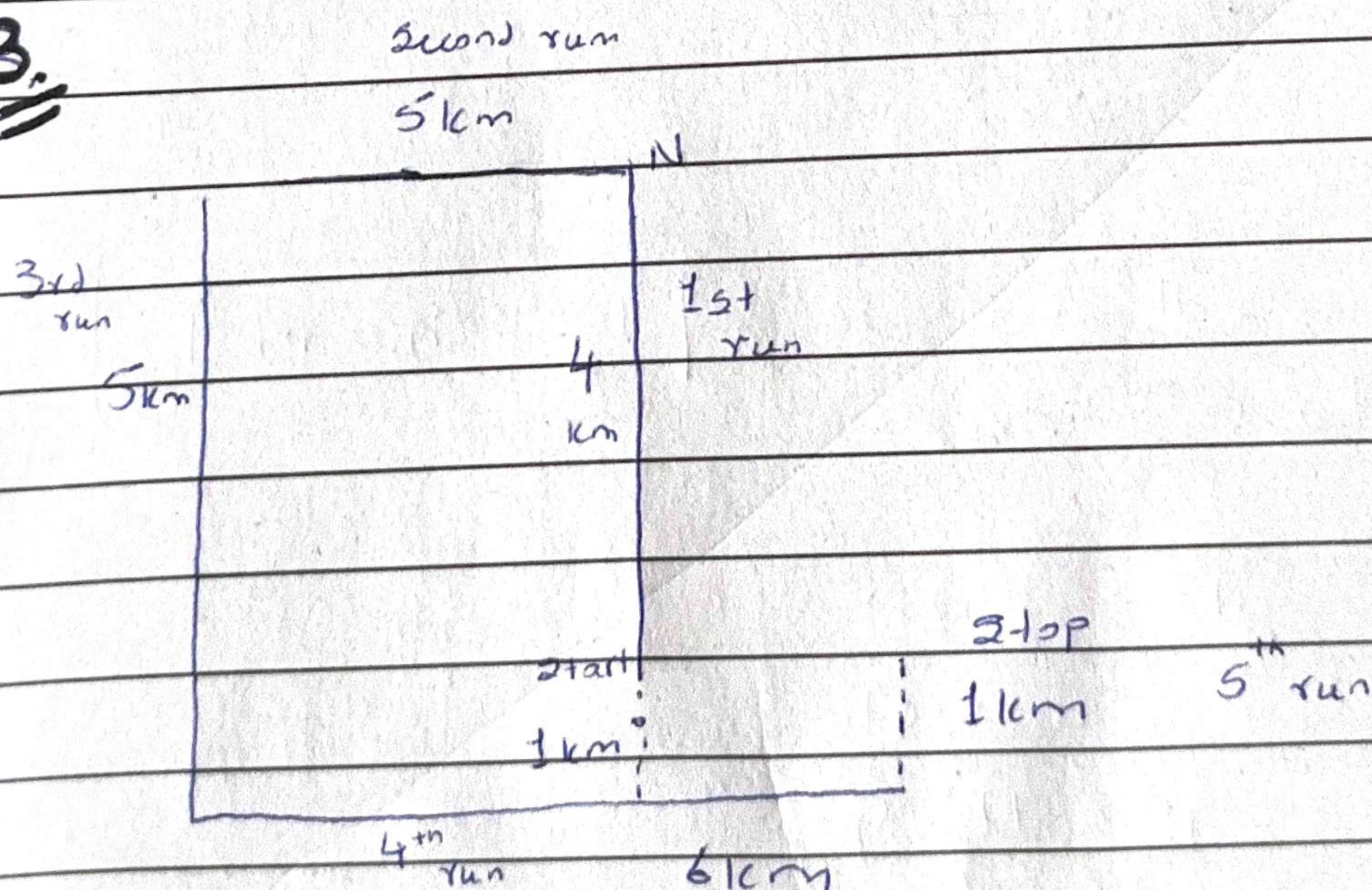
D B A E C is correct

A is in the middle

Ans.

Q.8 B

B.



Answers

1. 1 km away from starting place

2. Direction will be **East** from starting position.

3. After taking the second turn, the person will be turning **South**

4. Person will have to run **West** to reach starting point from finishing position.

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Q.8

C.

C.

T H R S I

-

S H I R T

A O T C

-

C O A T

E O U B S L

B O U S E L

B L O U S E

K T R I S

S K I R T

R E T A E W S

S W E A T E R

S K I R T

Ans.

is the
odd one
out

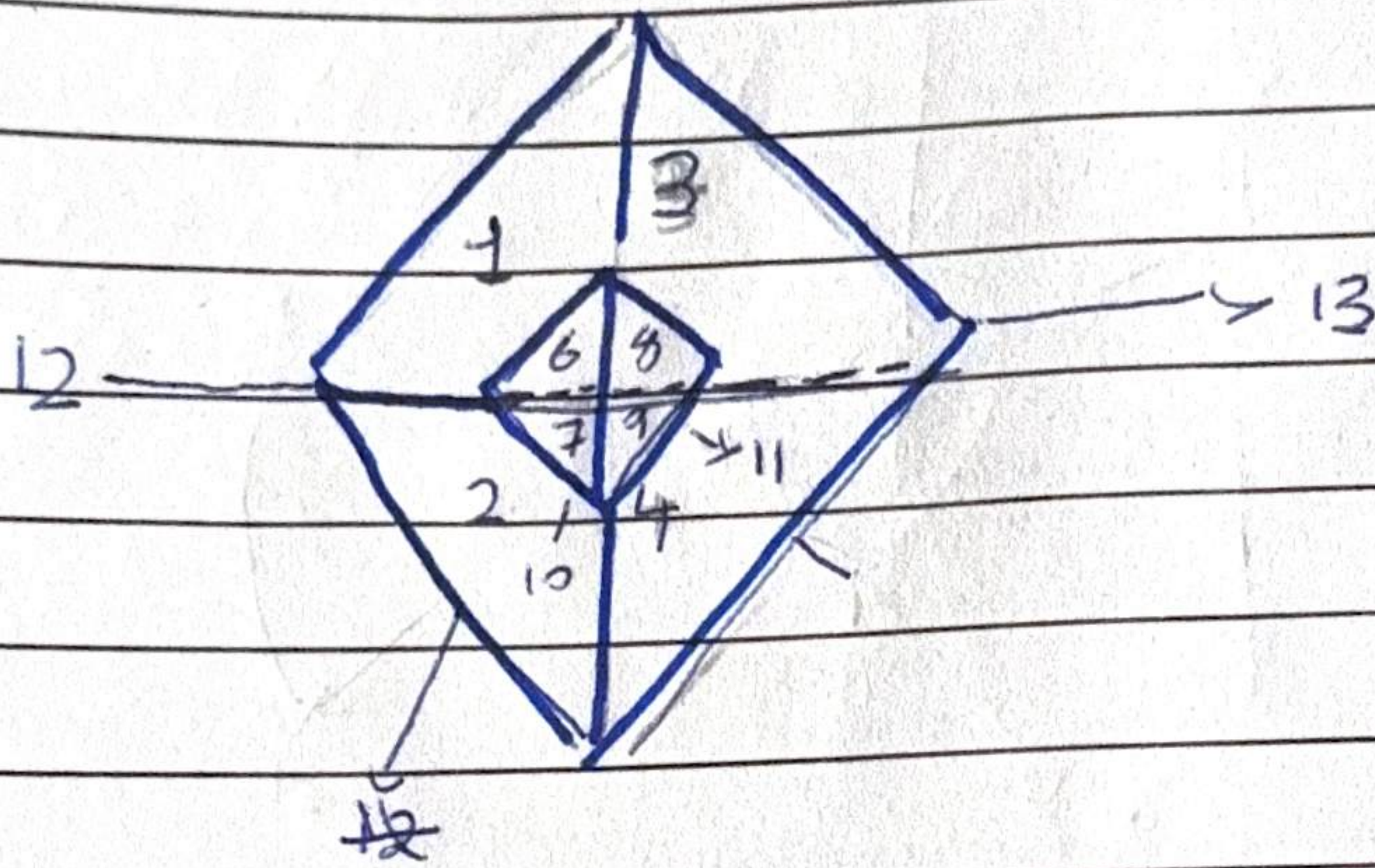
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Q. 8

Ans.

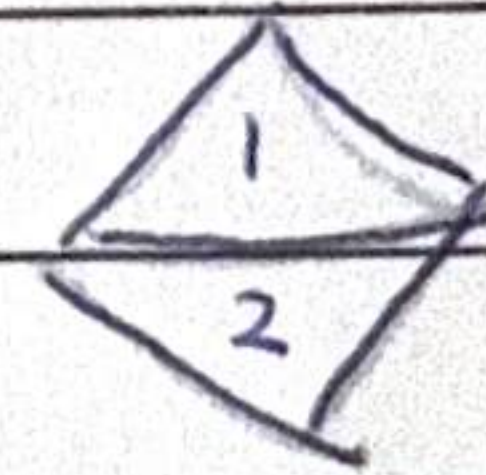
Ans.



→ likewise
B

13 small

→ common point between
two triangles



$$13 + 13 + 2 = 27 \text{ triangles}$$

27 triangles in total

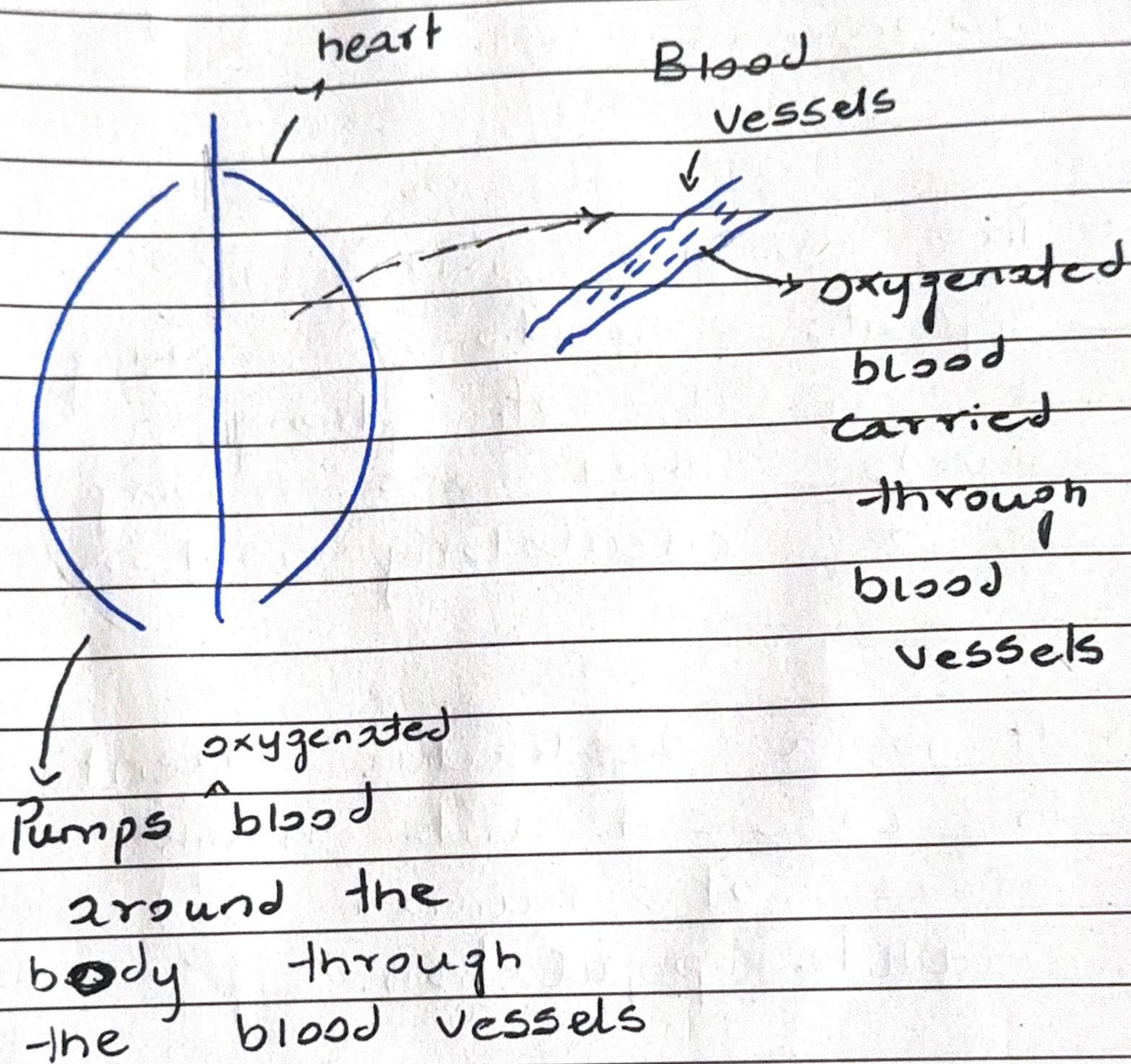
Ans //

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Question 4

Q.4 A



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Q.4 B.

b.i

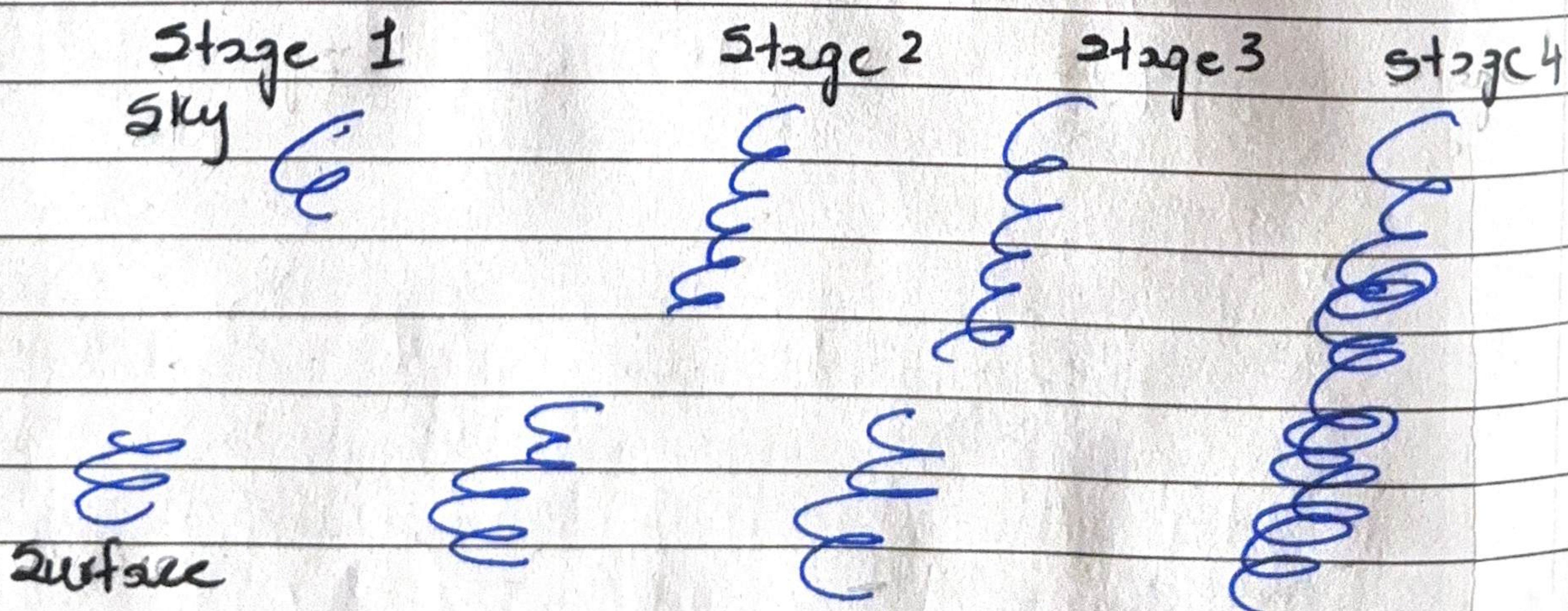
Cyclone

→ is a natural occurring phenomenon

→ The winds move in opposite directions making a spiral of strong winds that are moving in a circulatory motion

→ It is a destructive event in case it hits high areas of human and wildlife population.

Formation of cyclone



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cyclones are formed when the warm air of the surface and cold air of the air meet as illustrated above

Q.4

C

C.

Functions of

Carbohydrates → quick source of energy

Proteins → helps in growth/repair of muscle and tissues

Fats → slow release of energy to the body; essential for brain functioning optimally

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Calcium - helps keeps
bones strong

Iron - helps in
keeping blood
healthy

Q.4

12

D.:

Remote sensing allows
the scientists and
environmental protectionist
to see satellite
images of different
landscapes and sea.

→ Early warning of storms

through remote sensing
weather patterns predicted
and forecasted earlier

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to warn people to
evade a place.

→ **Cyclone** predicted and
their trajectory

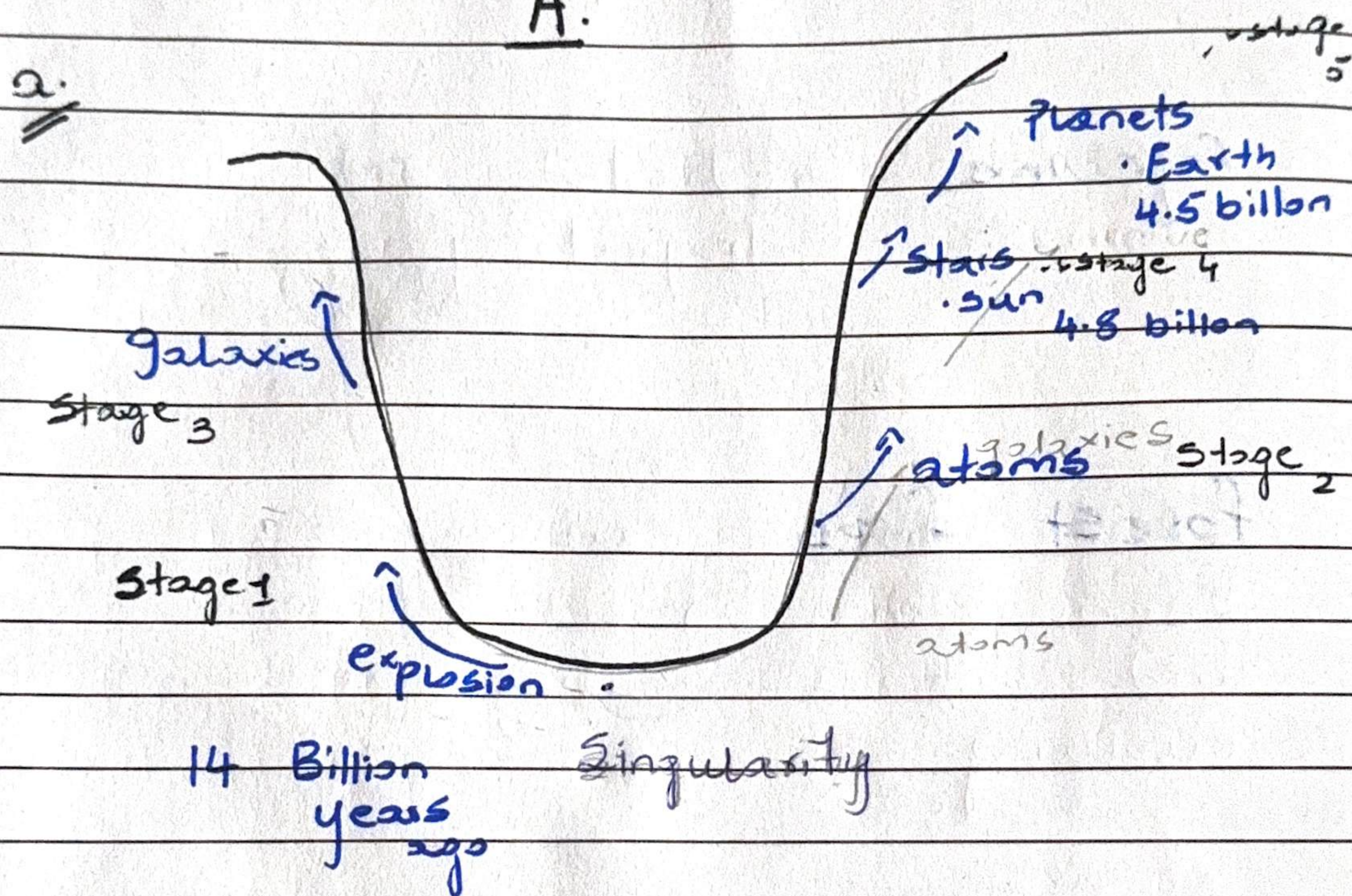
→ **Forest fires** can be
seen in real time
and how they are
evolving

Protection of natural habitat

→ **deforestation** can be
prevented/reduced by
catching ~~areas~~ those
who commit it through
mapping of pain-point
areas.

Question - 2

A.



The universe according to the Big Bang theory was in one dense atom called **Primeval Atom** - intensely hot - that exploded and led to the formation of universe. A

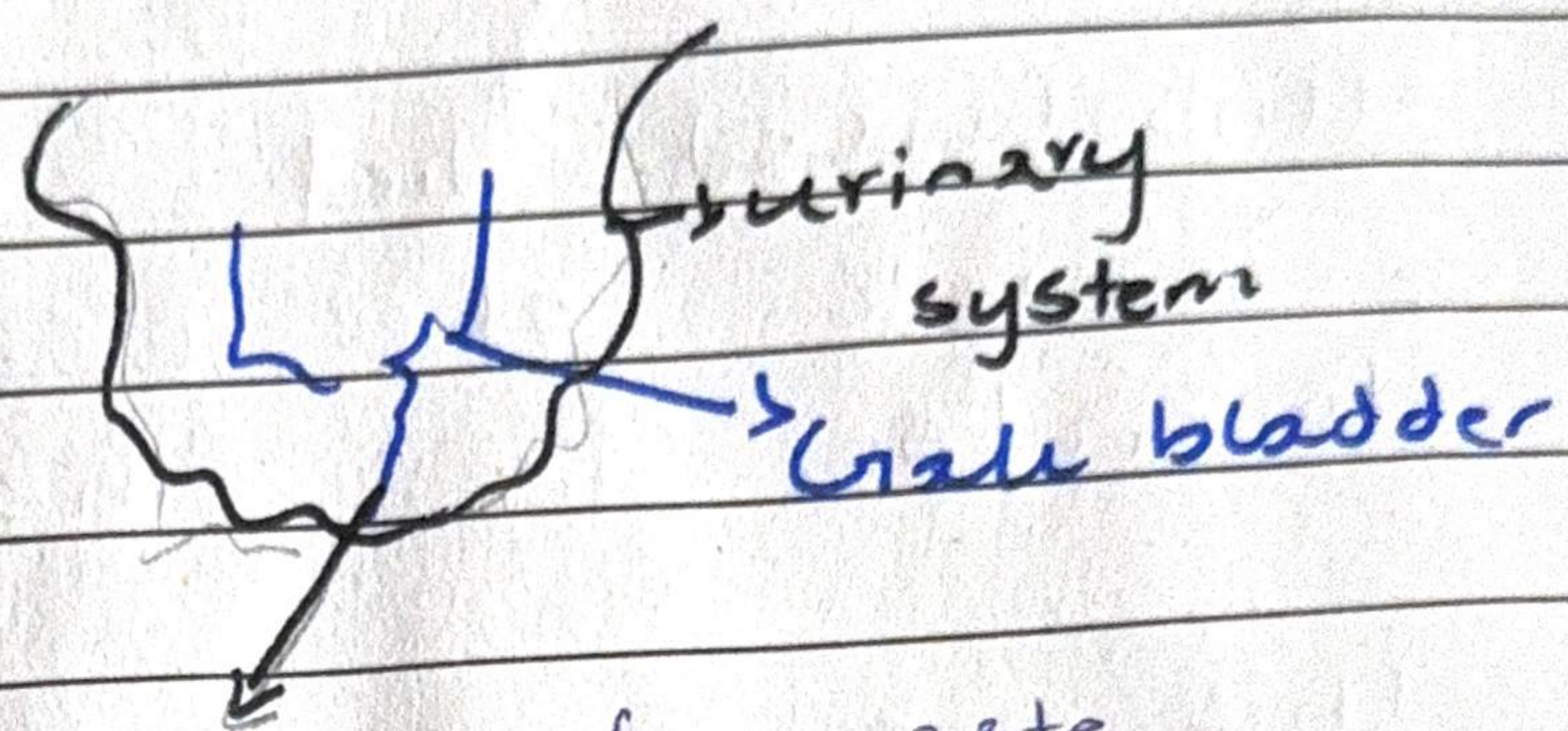
→ After this other atoms formed, then galaxies, after that stars, planet and so on and so forth.

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Q.2 B.

B. Urinary system



urine - disposal of waste

decomposes all of the waste from the liver and the kidneys in liquid form and helps keep the body clean

Working of nephron

help in transportation of essential antibodies to combat disease and enhance immunity of body.

Q. 2 C.C. Unbalanced diet

Unbalanced diet refers to the lack of essential nutrients in the diet.

→ This can involve lack of proteins to build muscles or vitamins helping for effective functioning of organs.

How it affects healthy living?

→ a person can become more susceptible/vulnerable to diseases

e.g. lack of vitamin K increases likelihood of blood clotting.

→ An individual cannot carry out daily tasks to the best of their ability

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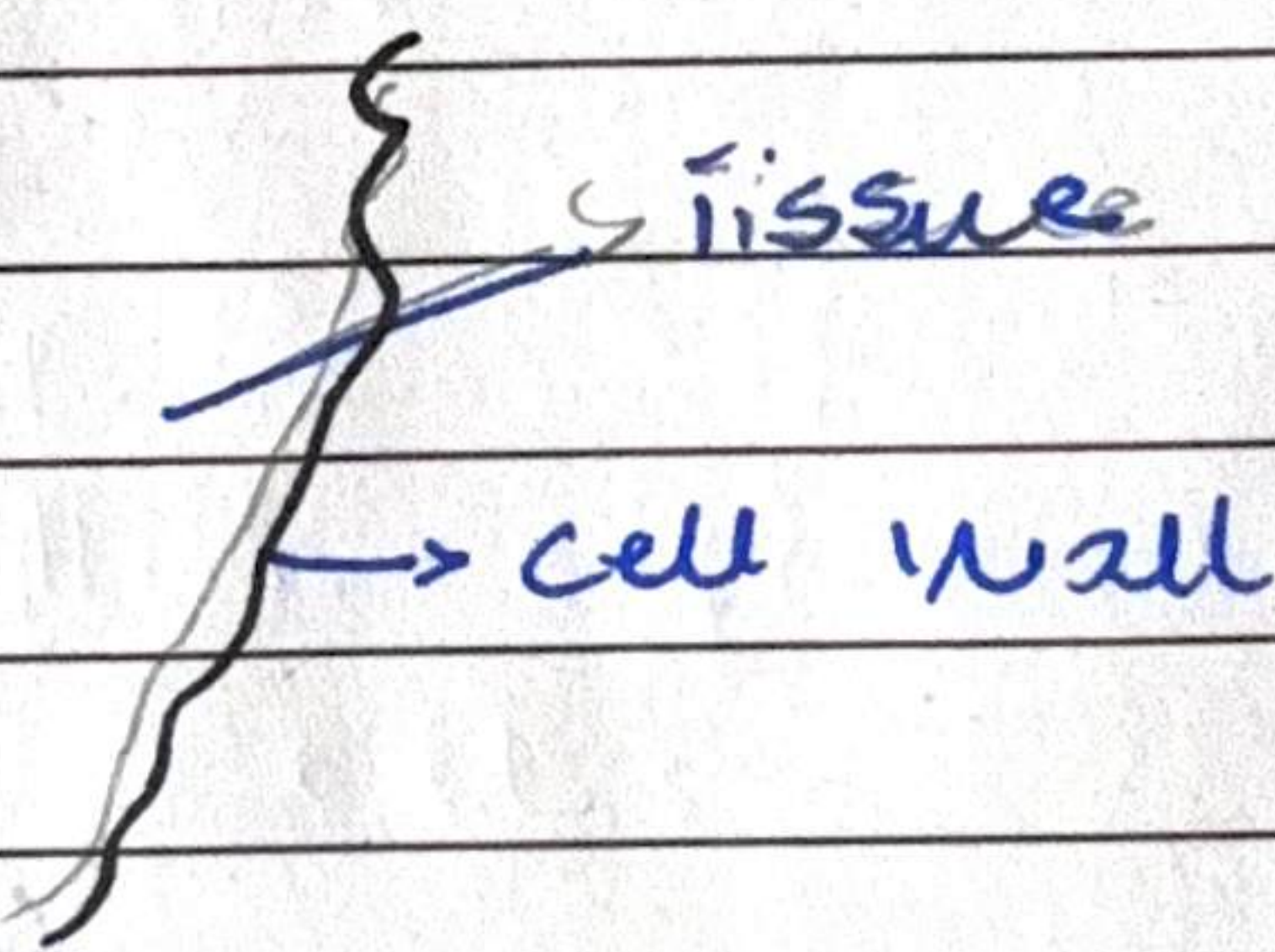
e.g Lack of vitamin A
causes night blindness
making it difficult to
drive.

Q.2

Q.1

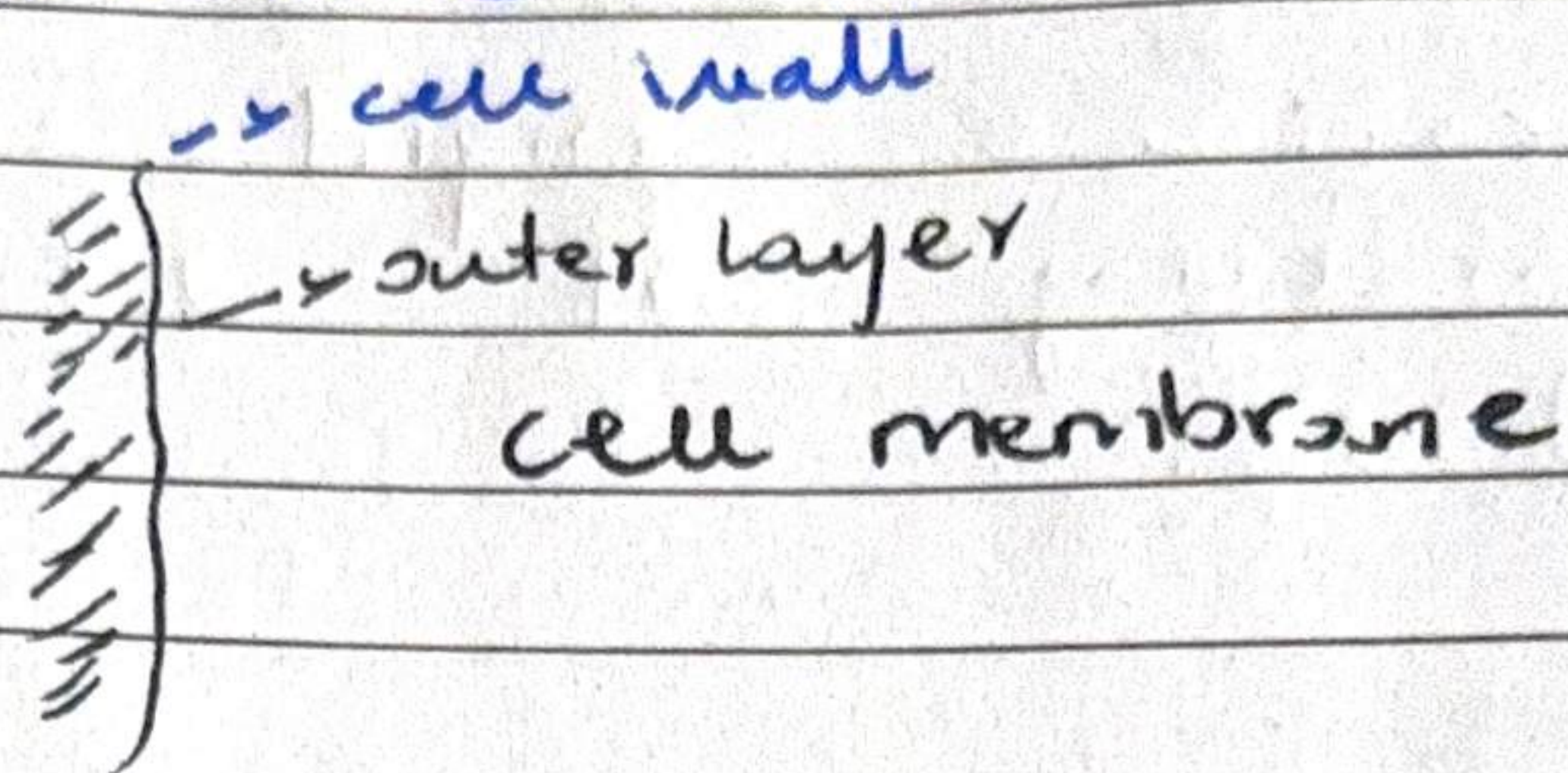
Q.1

Cell wall



Cell wall protects
human organs by giving
protective cover to
tissues.

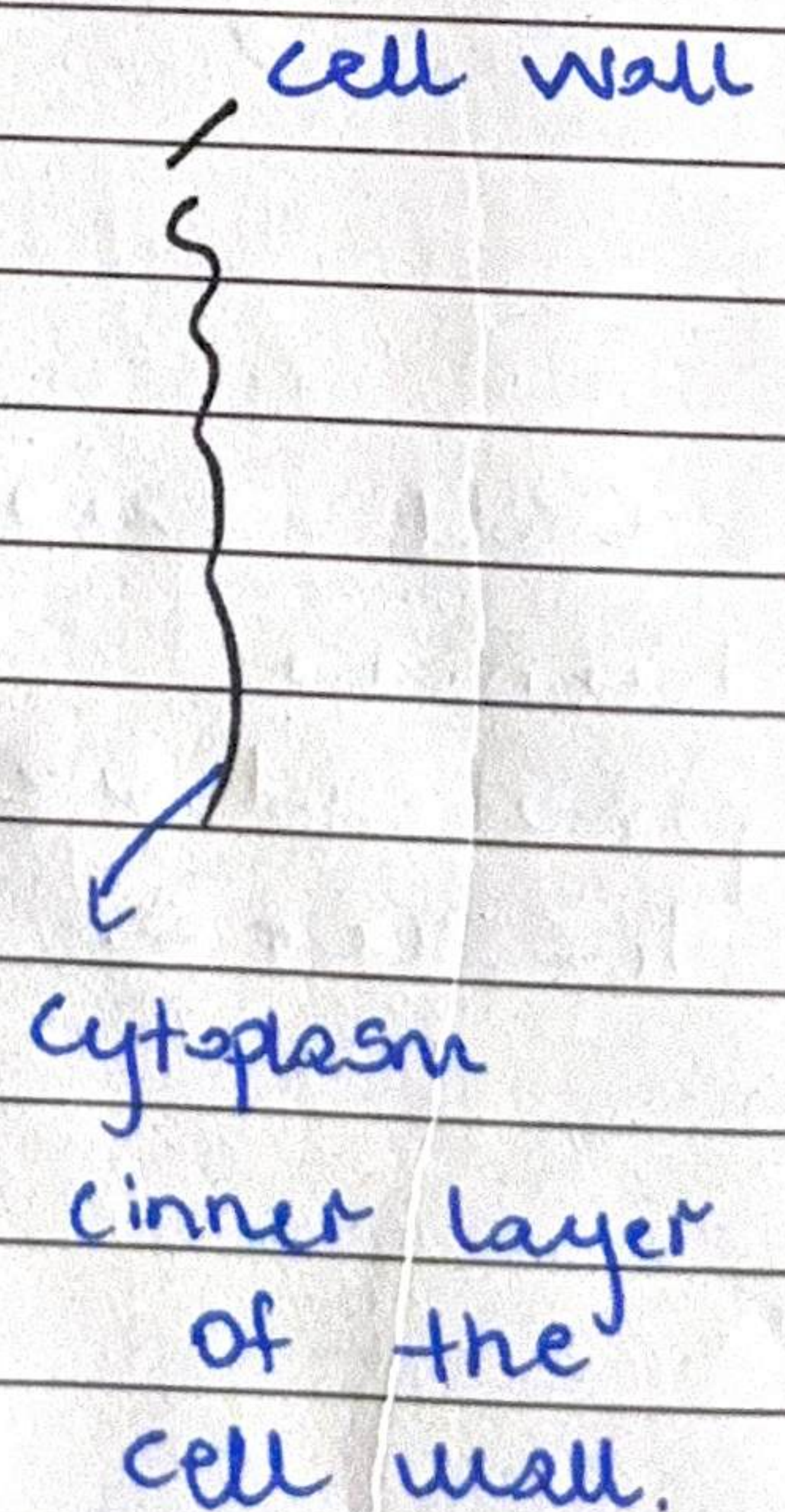
Cell membrane



is the outer layer of cell wall that gives protection to organs and tissues

Cytoplasm

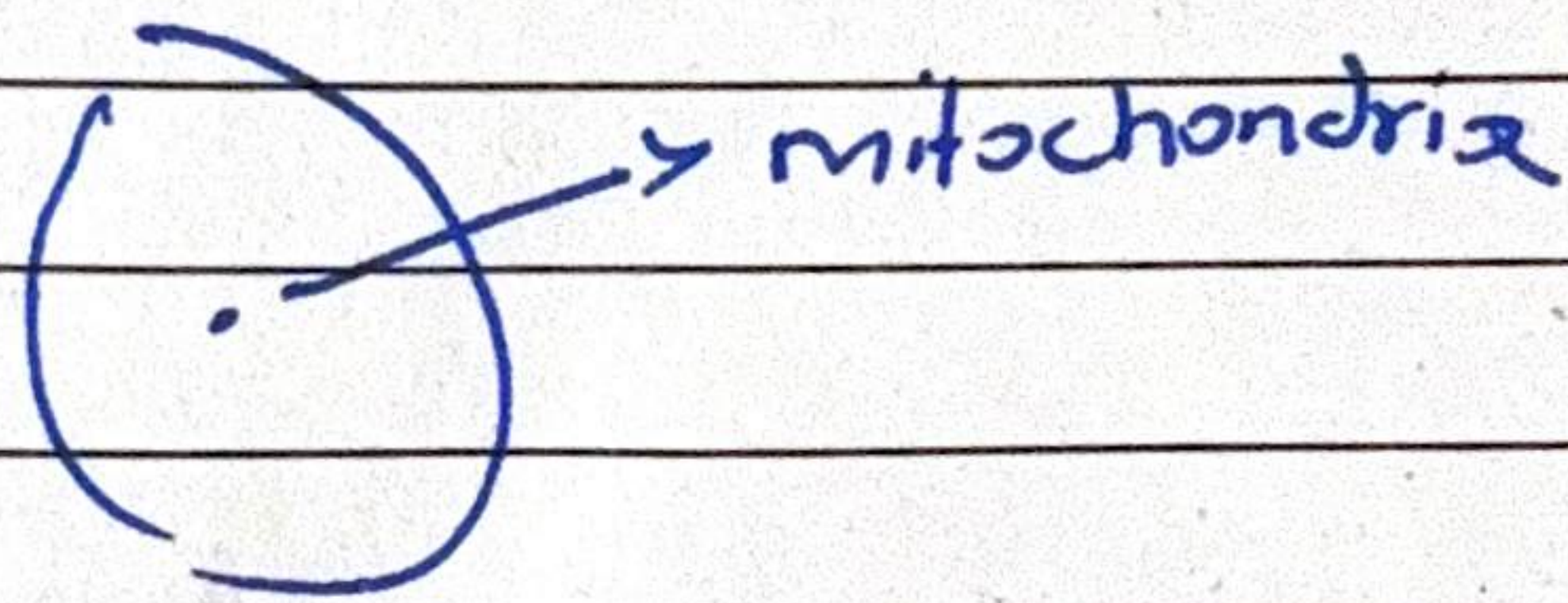
is the inner layer of the cell wall that gives protection against harm to organs



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mitochondria



is the powerhouse of
the cell.