

PRACTICAL

Serial 363976

BOARD OF INTERMEDIATE & SECONDARY EDUCATION,
SUKKUR, SINDH.



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(Part-II)

Section-A

Seal

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Answer 1) 1-

Floods

"When a dry piece of land
is submerged under
water,
known as floods."

Floods are natural disasters. These pose a huge loss. Overflow of the continuous water, called floods.

2- Floods of 2022 in Pakistan and economic loss

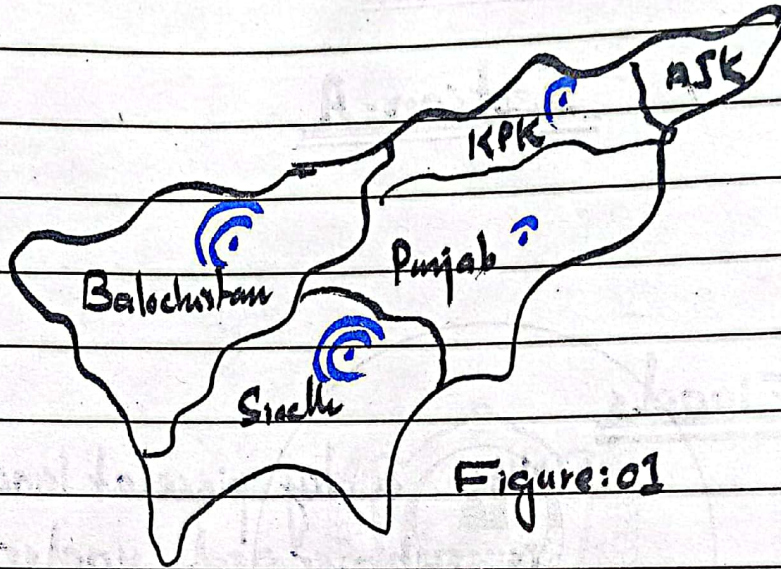
"Floods of 2022 in
Sindh and Balochistan
resulted a massive
loss."

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Reversal seasons monsoons resulted unprecedented flood in 2022. In consequence, Pakistan had a loss of \$40 billions. This shows a huge economic downturn.



3- Climate finance and COP-27

"COP-27, Sharmul Sheikh, allowed fund for loss and damage."

Pakistan played a significant role in granting climate financing for developing countries. It will help in re-structuring the lost position.

4- COP-28, the United Arab Emirates (UAE)

"COP-28 has role in

granting specific financing
for developing
countries to meet with
challenges of climate."

The COP-28 in Dubai
has a main motive of allocation of
funds which was discussed in COP-27.
Hence, COP-28 will pave way for clim-
ate financing.

b)

Answer 1- Vitamins

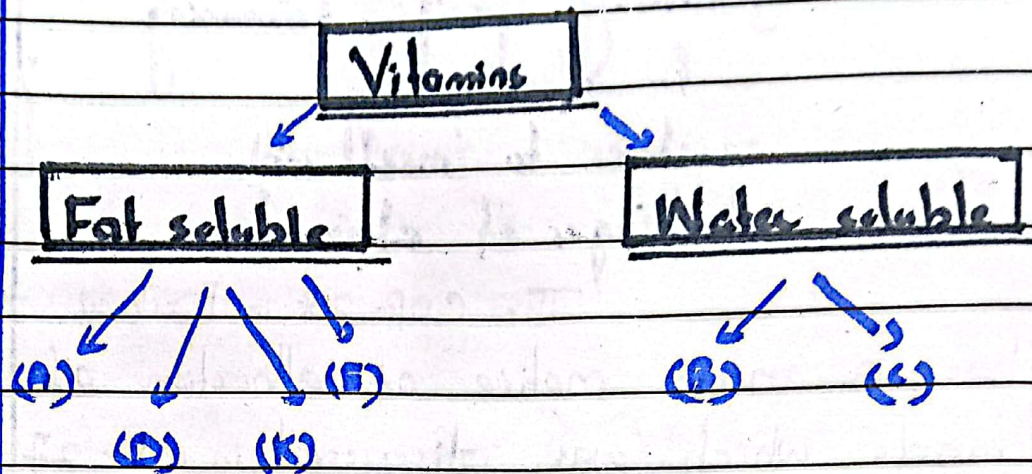
"Vitamins are necessary
for proper functioning
of body."

Vitamins are important
sources of food. They provide ability
to body for proper functioning.

2- Types of vitamins

below:

Two types are as



a) Fat soluble vitamins

"Vitamins which are soluble only in fats."

Fat soluble vitamins are as follows:

i) Vitamin - A

"Vitamin A is necessary for vision."

Sources: green leafy vegetables, fruits, milk etc.

Deficiency: night-blindness

ii) Vitamin - D

"Vitamin D is good for healthy bones."

Source: sun-light and milk

Deficiency: rickets

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iii) Vitamin - E

"Vitamin E is good
for skin and
hair."

Sources: vegetables, fruits, milk etc

Deficiency: rough skin and hair

ii) Vitamin - K

"Vitamin K helps in
blood clotting."

Sources: vegetables, fruits, milk, beans etc

Deficiency: failure of blood clotting

b) Water soluble vitamins

"Vitamins which are
soluble only in water."

Water soluble vit-

amins are as below:

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i)

Vitamin - B

Vitamin B has many types,
main are these discussed:

B ₁	Riboflavin
B ₂	Thiamine
B ₃	Niacin

Source: fruits, vegetables, bean-products,
milk etc

Deficiency: Pellagra, Beri-Beri, Cheilosis

ii)

Vitamin - C

"Vitamin - C is good
for healing
wounds."

Source: citric-containing fruit

Deficiency: Scurvy

c)

Answer 1-

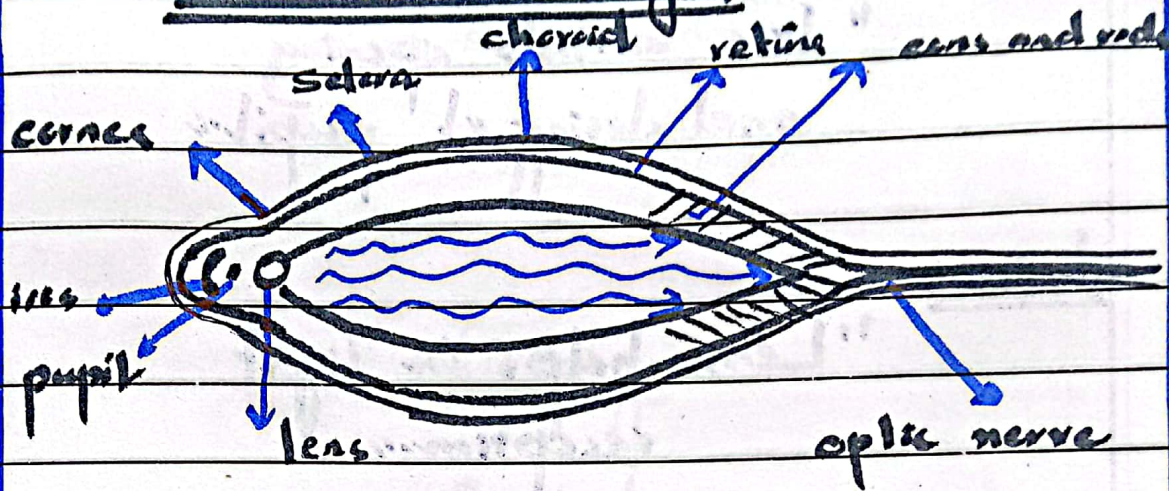
Eye

"Eye is a vital
human organ."

Eye helps in vision-
ing things around.

2-

Structure of Eye



i) Cornea

"It is the outermost layer."

Cornea bend the light and help to see objects.

ii) Choroid

"Choroid supplies nutrient to eye."

iii) Retina

"It helps in light reflection."

iv) Cons and rods

"These are photoreceptors."
These also help in image formation.

v)

Iris

"Iris controls opening and closing of pupil"

vi)

Lens

"Lens helps in light reception"

vii)

Optic nerve

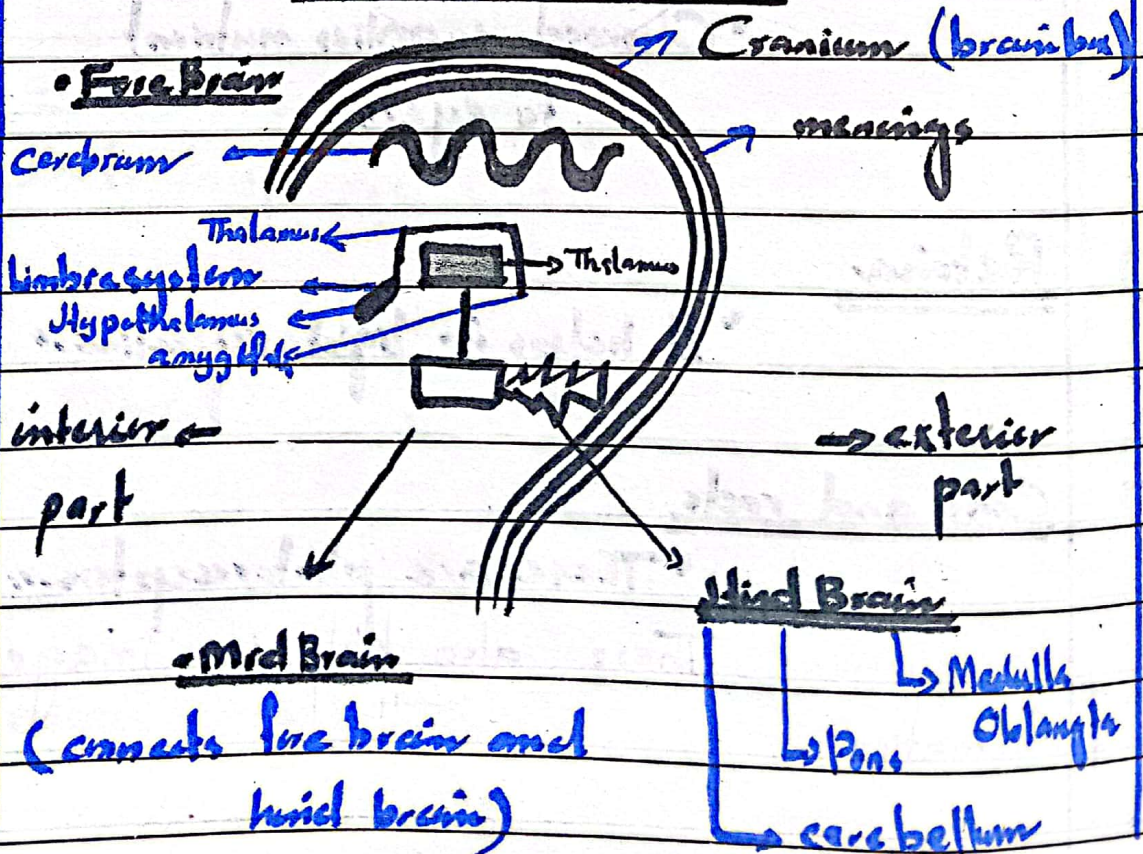
"Optic nerve transmits image to brain"

And it usually helps in recognition of things.

d)

Flow chart of brain

Answer



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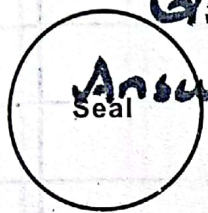


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Q:39)
Answer:-

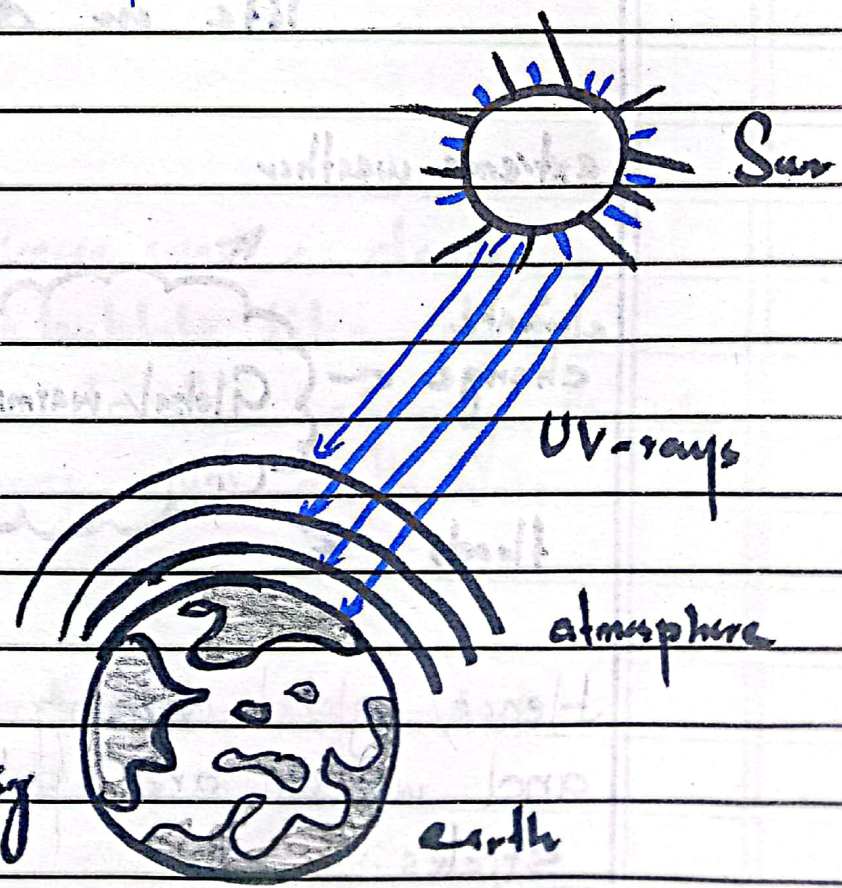
Global Warming

"Gradual increase in temperature above sea-level, called global warming."

Global warming is an average rise in temperature. It warms the planet that poses threat to human survival.

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• Global Warming

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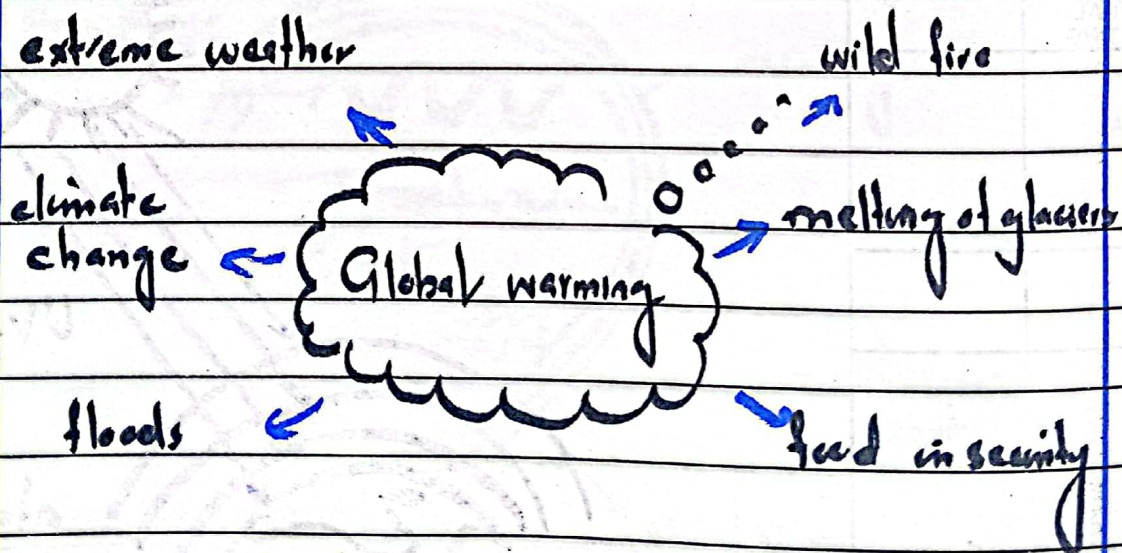
2-

Global warming is a wild beast

"Global warming is a serious threat to all living beings."

Global warming is a curse that threatens the livable planet. It causes, rise in temperature, melting of glaciers, floods, wild-fires, economic loss, climate change, extreme weather, food insecurity etc.

"All above risks put life in danger."



Hence, global warming is a wild beast and we all are poking at it which strikes.

b)

Answer 1-

Universe

"Universe is a collection of stars, galaxies, planets, moons etc."

Universe is a huge ball like - structure which is composed of stars, planets, galaxies and so on.

2-

Origin of universe

"The universe is about 13.8 billion years old."

Origin of universe is as below:

a)

Singularity

"Universe was a dense, hot bubble like - structure."

In the beginning, the whole universe was just a bubble.

b)

Expansion

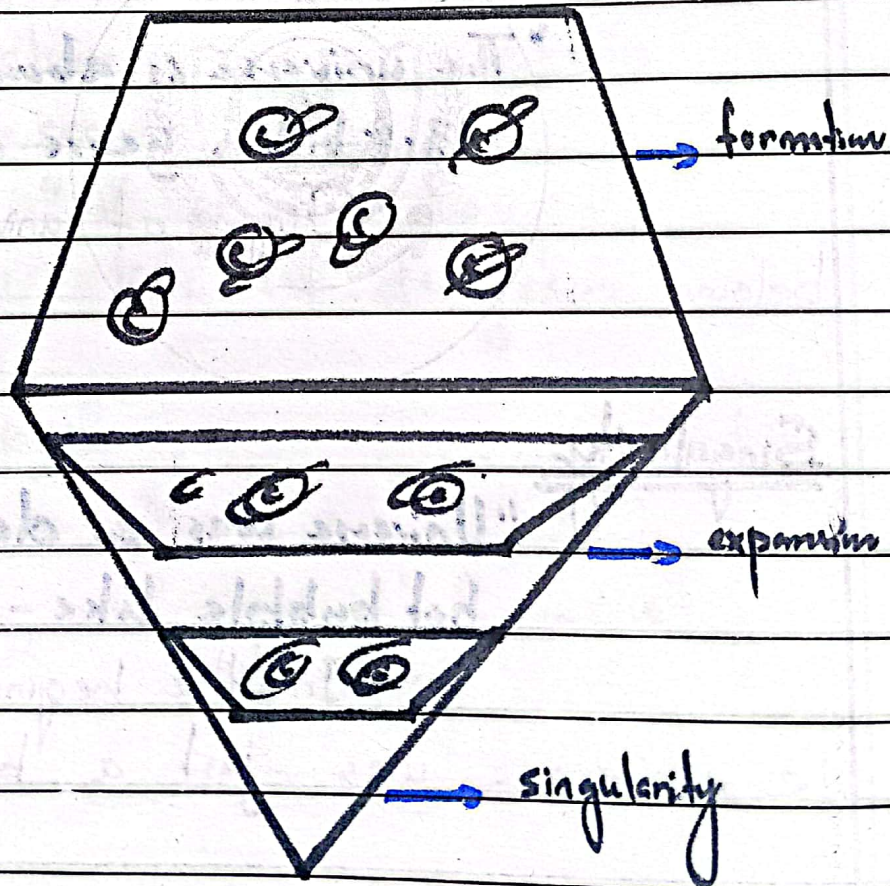
"This bubble expanded due to force."

When a force exerted on it, it expanded in size.

c) Formation

'The expansion continues and form everything as the "big crunch."

The universe expansion continued and it formed everything, called 'a big crunch'.



Origin of Universe

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3-

Age of universe.

"Universe is made up
of matter."

The whole universe is
made up of ~~matter~~ matter.

As, $\frac{3}{24}$

Moreover, it has low density as,
 $\frac{1}{4}$

" $\therefore \frac{3}{24} + \frac{1}{4}$ is regarded as

age of universe."

Answer 1 -
Semi-conductors

'Semi-conductors are
modern electronic materials.'

Semi-conductors consists
of several electronic devices. These

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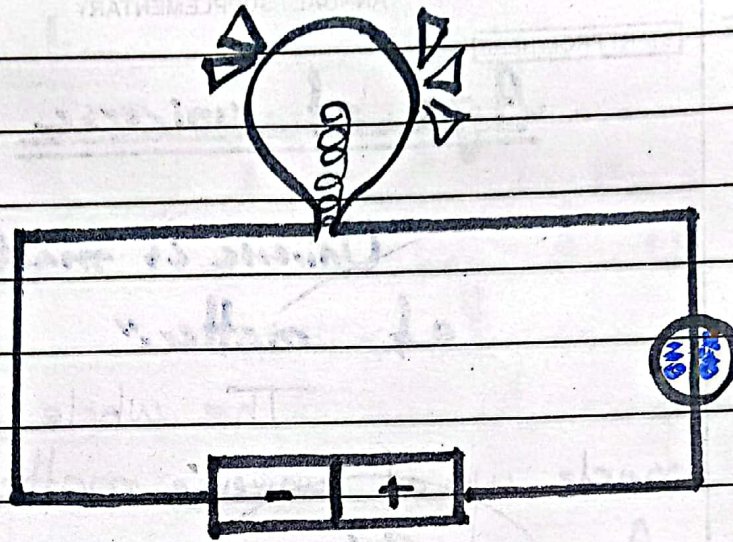
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have semi-conductor chips which make them work efficiently.



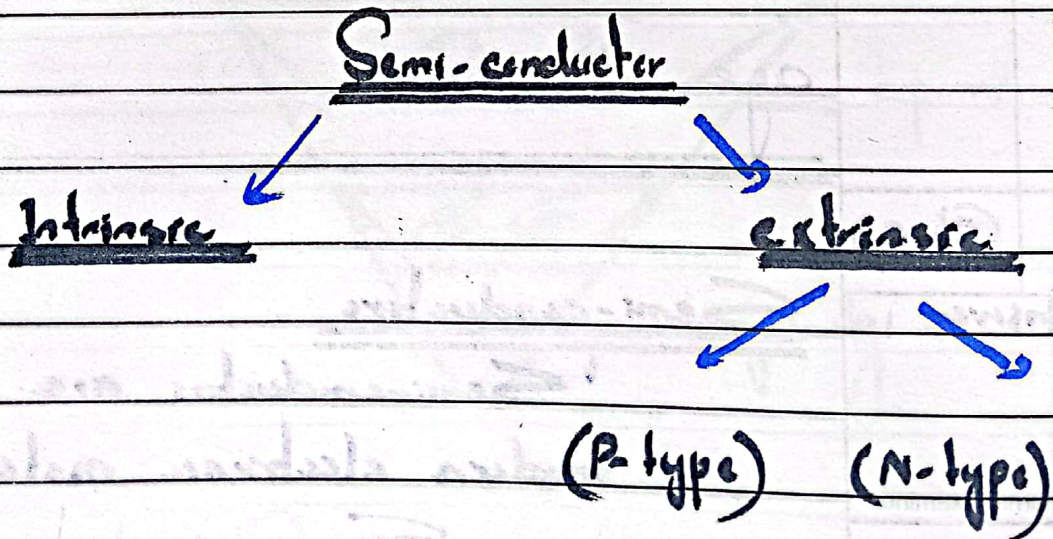
• Semi-conductor

2.

Types of semi-conductors

Two types are as

below:



i)

Intrinsic semi-conductors

"Intrinsic semiconductors are pure in nature."

ii)

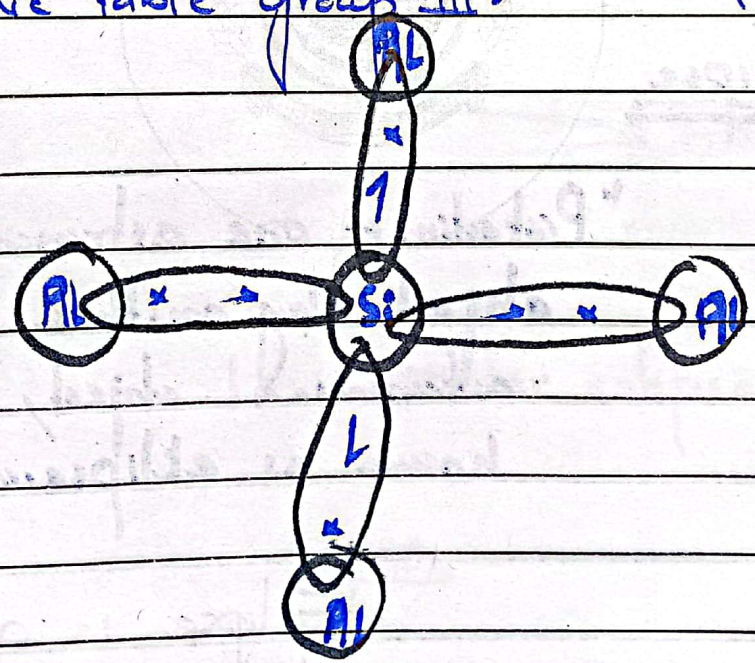
Extrinsic semi-conductors

"Extrinsic semi-conductors are containing impurity."

a)

P-type extrinsic S.C

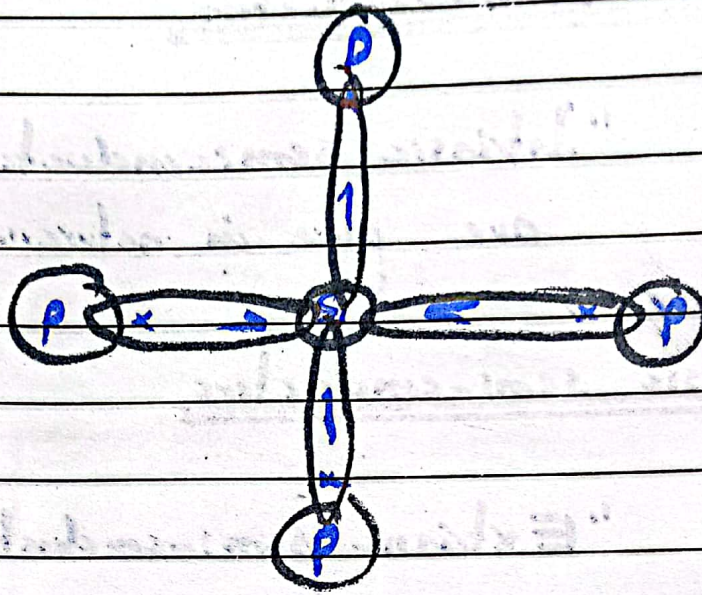
P-type contains impurity from periodic table group III.



b)

N-type extrinsic S.C

N-type contains impurity from group IV.



Thus, semiconductors are electronic materials.

d)

Answer 1-

Eclipse

"Partial or total obscuration of one astronomical object by another astronomical object, known as eclipse."

Eclipse is a natural process. It is a partial or total obscuration of astronomical bodies.

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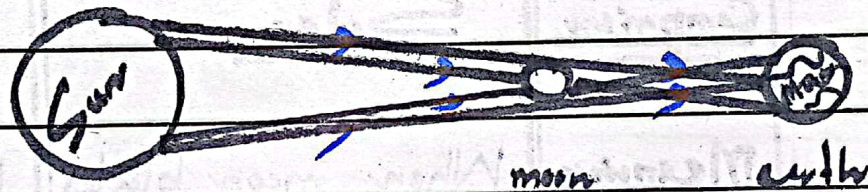
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2-

Solar eclipse

"When moon comes in
between earth and sun."

Solar eclipse is formed when moon blocks light in between earth and sun.



• Solar eclipse

3- Lunar eclipse

"When earth comes in
between moon and sun."

Lunar eclipse is so formed when earth comes in bet-

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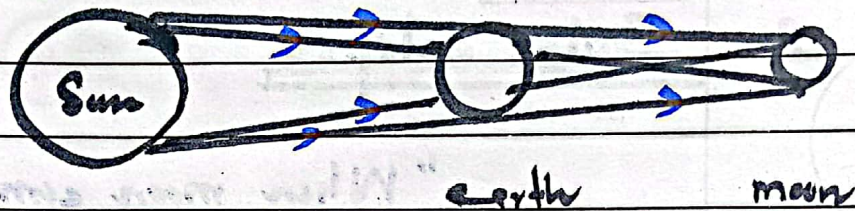
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ween moon and sun.



Lunar eclipse

4-

Distinguish between solar and lunar eclipse

	<u>Comparison</u>	<u>Solar</u>	<u>Lunar</u>
i)	<u>Meaning</u>	When moon blocks sun's light.	Earth blocks sun's light.
ii)	<u>Position</u>	Moon comes in between earth and sun.	Earth comes in between moon and sun.
iii)	<u>Occurrence</u>	It occurs during day-time.	It occurs during night.

iv)

DurationIt lasts for
5 to 7 minutes.It takes an
hour.

v)

FrequencyIt appears every
18 months.It appears twice
a year.

vi)

AppearanceIt appears many
places.It appears
few places.

(Section-B)

Q: 7a)

Answer

Data

Total seats, 400

Occupied seats, 325

What is the percent of attendance?Solution

$$\text{percent} = \frac{\text{Occupied seats}}{\text{Total seats}} \times 100$$

$$= \frac{325}{400} \times 100$$

81.25

Hence, percent of attendance is, 81.25%.

b)
Answer

Data

30 persons, sugar 40kg, in 10 days

80 person, sugar 320kg, in how many days?

Solution

Persons	Sugar	Days
30	40 kg	10
80	320 kg	?

$$\text{Days} = \frac{30 \times 10}{40} = 80$$

Thus, 80 persons will use 320 kg of sugar in 80 days.

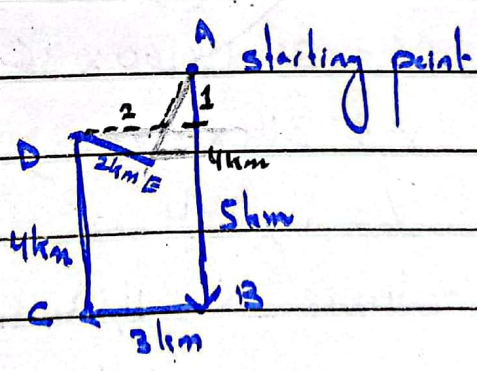
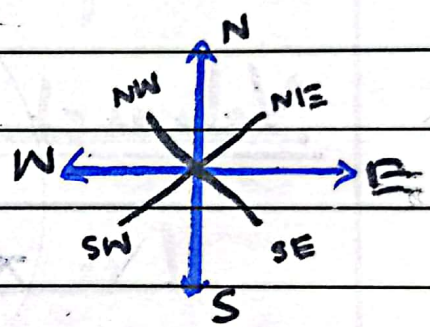
c)
Answer

Data

A crow travels = 5km South
West = 3km
North = 4km
South-east = 2km

What is the distance from initial point?

Solution



Distance of $\overline{AE} = 3\text{km}$

Q3

Answer

Data

radius, 10 cm

height, 36 cm

Volume of a cylinder ?

$$V = \pi r^2 h$$

$$V = 3.14 \times (10)^2 \times 36 \text{ (cm)}$$

$$V = 3.14 \times 100 \times 36 \text{ (cm)}$$

$$V = 314 \times 36 \text{ (cm)}$$

$$V = 11,304 \text{ cm}^3$$

Hence, volume is 11,304 cm³.

Q 6

Answer

Data

fence, 300 ft

longer piece, 4 times of shorter

How long are two pieces?Solution

$$x + 4x = 300$$

$$5x = 300$$

$$x = 60$$

shorter piece is, 60 ft.

so, longer is, $4x (4 \times 60) = 240$ ft.

b)

Answer

Data

rectangle perimeter = 20 inch

Length is 3 more than twice of width

What are dimensions?Solution

$$P = 2(l + b)$$

$$20 = 2(2x + 3 + x)$$

$$20 = 2(3x + 3)$$

$$20 = 6x + 6$$

$$8x = 14$$

$$x = \frac{14}{8}$$

$$x = \frac{7}{4}$$

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So, breadth = $2x$

$$\frac{2 \times 7}{\frac{1}{2}} = 3.5 \text{ inch}$$

and length = $2x + 3$

$$= 3.5 + 3$$

$$= 6.5 \text{ Ans.}$$

$b = 3.5$ and $l = 6.5$ inch.

6)

Answer

Data

match won = 60%

match lost = 24%

How many matches were played in a year?

Solution

60% means 60 match



$$\text{So, } 60 + 24 = 84 \text{ matches}$$

hence, total matches were played, 84.

d)
Answer

Data

two numbers ratio 3:2

2 is added to 3

and

6 is added to 2

ratio will be 8:5

Find the numbers?

Solution

$$\frac{3x + 2}{2x + 6} = \frac{4}{5}$$

$$5(3x + 2) = 4(2x + 6)$$

$$15x + 10 = 8x + 24$$

$$7x = 14$$

$$x = 2$$

So, $3x$ will be, 6

and

$2x$ will be, 4

Thus, 6 and 4 are numbers.