Question 6 (B)

Paid ... in comparison and 10%.

= 1500

What will be his real income = ?

→ let original income

using percentage formula

$$\frac{10}{100} x = 1500$$

$$10x = 500 \times 100$$

$$10x = 50000$$

$$x = 50000/10$$

$$\boxed{x = Rs\ 15000}$$ is the original salary

14

3

6

Question 6 (A)

Age of son now = 30 years
Age of father 5 years ago = 3x of son
What is father's age now = ?

Let the age of son 5 years ago
30 - 5 = 25 years

Age of father at that time 3x of son
25 x 3 = 75 years

Age of father now when age of son
is 30
→ 25 + 5 = 30 age of son now after
5 years.

→ 75 + 5 = 80 age of father now as
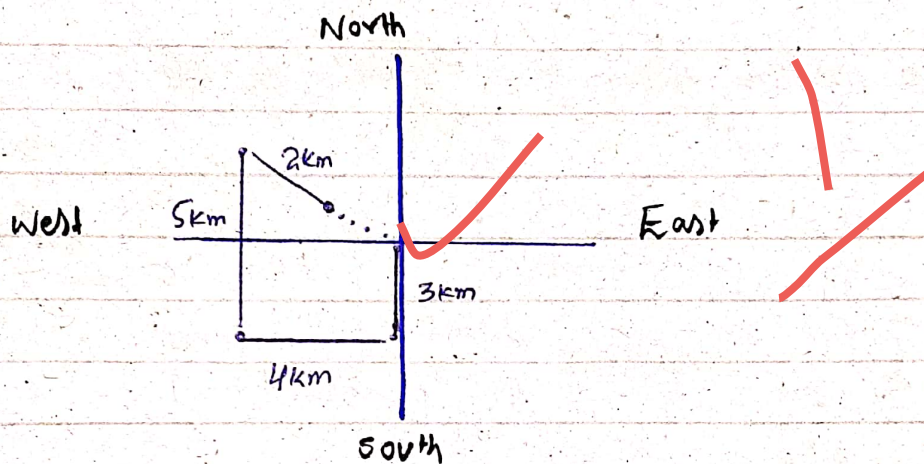his son is of 30 now

Son = 30   Father = 80   now

Years

Question 8 (A)

Towards South = 3 Km
Towards West = 4 Km
Towards north = 5 Km
Towards South-east = 2 Km

Using Pathagoras theorm

Perpendicular = 5 Km
Base = 4 Km
hypertenious = ?

Hypertenious = Perpendicular / base

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

| hypertenious = 1.25 Km | from original point

Question 8 (c)

investment of Tahir = 15000
investment of Umar = 30000
investment of Usama = 45000
Net Profit = 406000

Let Settle the due shares according to ratios of their investment.

Tahir		Umar		Usam
15000	:	30000	:	45000
1	:	2	:	3

So the profit will also be shared according to their ratios of investment

Profit = 406000 will be divided among all in ratio 1 : 2 : 3

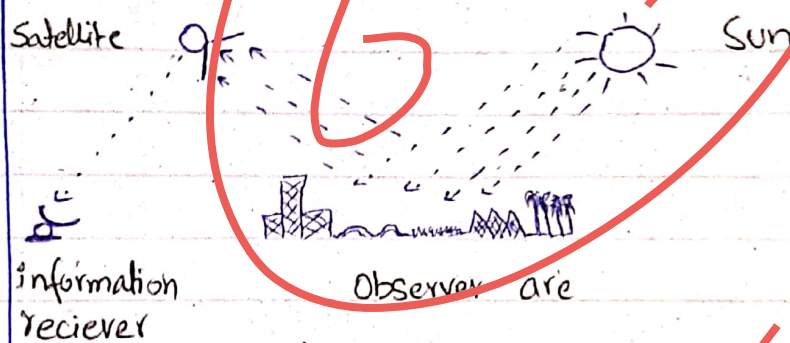406000 / 6 = $\boxed{67666.6}$ So the share will be

Tahir		Umar		Usman
1	:	2	:	3
67666.6	:	135333.3	:	203000

is the share respectively

Question 8(b)

Total property = 640000
Debt serviuing = 40000
Burial expenceb = 5000
widow = ?
Daughter = ?
Son 1 = ?
Son 2 = ?

remaining money will be
640000 - 40000 + 5000
640000 - 45000
595000 remaining

→ Islamic share
widow having childs = 1/6
Daughter = 1
Son = 2

$$\frac{595000}{2+2+1+\frac{1}{6}} = 115310$$

widow		daughter		Son1		Son2
1/6	:	1	:	2	:	2
19218	:	115310	:	230620	:	230620

Question 3 (B)

Remote Sensing is done by using a group of Satellites to Sense the remote, hilly area, deserts, oceans, antartic and many other places where human can not easily reach.

Satellite .... Sun

information reciever .... Observer are

Role of remote Sensing

Used to analyze the area deeply to Study the nature of globe to analyze the conditions on any Place of earth where humans can not reach easily. Played a great role in discovering amazing hidden truths of mother earth from amazon, Antartic to Sahara desert.

Applications in enviromental Science

→ Used in enviroment monitoring
→ Glaciers monitoring
→ Forest watchout
→ Used in agriculture
→ Climate activity
→ Water resources

Detail?

Question 4 (A)

Artificial inteligence has revolutionized the world. it changed the pace of developmut and added accuracy to the System
- Artificial inteltigence capabled the machines to think like humans
- Replaced the assembly lines in factories by digital roboth
- one of the biggest assets of future.

"According to PwCs report: By 2030 AI will contribute 26% in global GOP and will capture 40% market Share."

- AI in health department is doing a great job where it enabled humans to analyze different diseases and their Symptoms

- AI in forestry revolutionised the field by Sensing condition of plants and alarming from future pesticides or biological attacks.

" The government of Jordan signed on agreement with a local company to check Palm trees through AI and aware them for future pesticides and other attacks. "

- AI revolutionised the Industry

" According to world economic forum 1st industrial revolution used water and steam to run the machine, Second revolution used electrical energy, 3rd used electronics and information technology and the 4th is revolutionising industry through AI "

More detail?

Question 4 (D)

→ A bond is a force of attraction between two atoms to form an element.
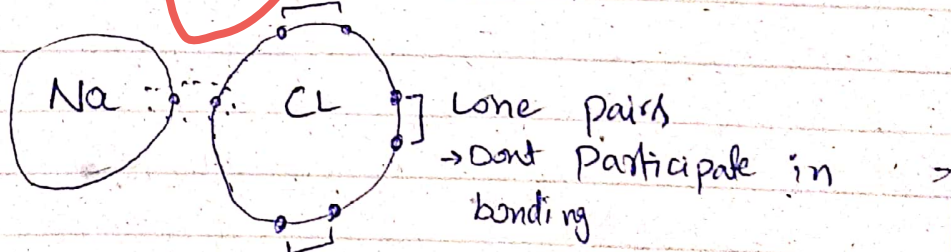
→ electrones are shared to get stability

Ionic Bond :o

Ionic bond is a ~~bond~~ which is formed by ~~transfer~~ complete sharing of electrones between two atoms.

Transfer

For example
The bonding between (Na) Sodium and (Cl) chloride.

Na have one electrone in last shell
CL have 7 electrones in last shell.

Na : : CL] Lone pairs
→ Dont Participate in bonding

Covalent bond

It is formed by the mutual sharing of electrones between two atoms.

For example the bonding between
(H) Hydrogen having one electrone in last shell
(cL) Chloride having seven electrones in last shell

In covalent bond electrone does not
completly shared but mutually by
both.

H CL