2

COP-28

Conference of parties (COP) held in Dubai in 2013. This conference is ratified by 192 countries and arrange annual meeting regarding climate change. It includes developed and developing countries.

Key features

Key features was surrounding around expediting transition of renewable energy, fulfilling the pledge of $100 billion to developing countries from developed world and focused on livelihood and displaced persons was the main factor of it.

↳ Firstly expediting the transition to renewable energy and reducing of greenhouse gases

↳ Secondly ractifying climate finance of $100billion which were pledged by developed countries to developing world particularly for the most effected countries

- Thirdly to prioritize the livelihoods of most vulnerable populations.
- Lastly to ensure full inclusivity so that past marginalized communities, indigenous people, women and youth actively involved in the decision making process.
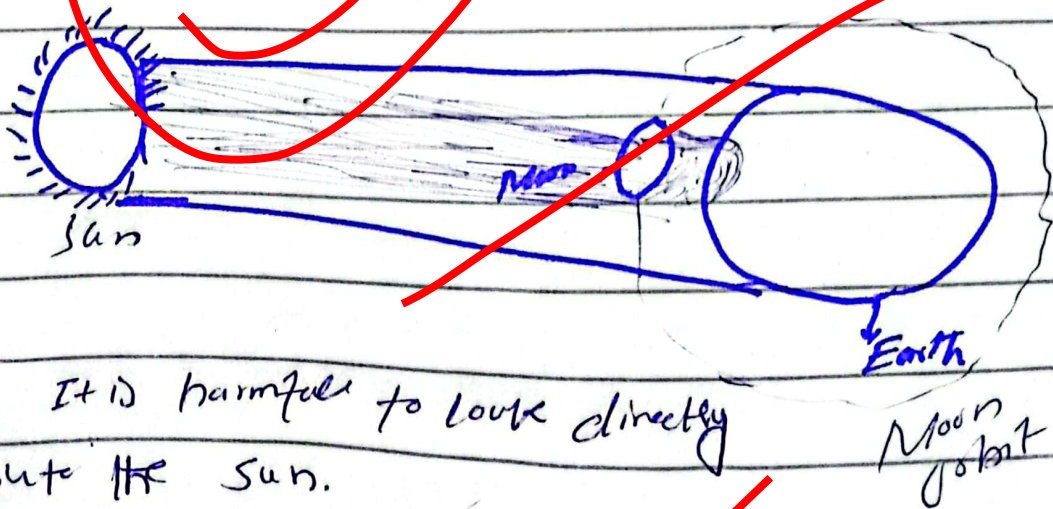
c) Balanced diet

To maintain body healthy, it does not required to eat everything but to eat in a proper way sometimes too much eating impact negatively and the balance of metabolism disturb so instantly it cause disease or infection infection. Therefore it is important to take calories which fulfill your body need and for that matter taking care of health is mandatory. One need to properly check the calories of every nutrients they eat or drink so if they over take then they have to reduce those extra calories by doing exercise. In this way the balance of diet would bee maintain.

d) CEPEC is project of China under Belt and Road initiative, it initiated is 2013 while CEPEC is operationalized since 2015. It brought alot of packages to Pakistan, be it solar energy, infrastructure corridors or special economic zone.

However, the three renewable energy resources are solar, LED optical fibers and wind. Through these renewable sources they would create 8000MW, which ultimately completing the desire need of electricity. Both solar and wind are the direly needed projects for Pakistan, as country is having severe energy crisis which cause in stagnation of industries and factories, that directly create unemployment and also impacting the livelihood by not having enough product.

4) c) Solar Eclipse

Sometimes when the moon orbits earth it moves between the sun and Earth. with this happen the moon block the Light reaching to earth surface. This causes an eclipse of the sun or the solar eclipse. During solar eclipse the moon cause a shadow on the earth surface. It happen once in every 18 months.
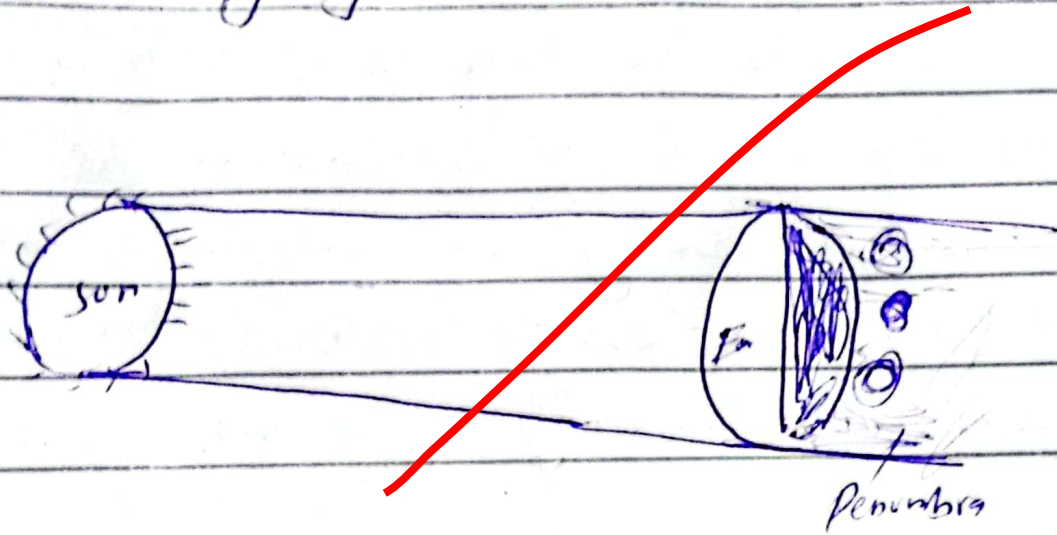

Sun   Moon   Earth   Moon orbit

It is harmful to look directly into the Sun.

Lunar Eclipse

The moon moves in an orbit around earth and at the same time Earth orbit around sun. Sometimes Earth moves between the sun and the moon. when this happen the Earth block the sunlight that

reaching earth surface. This sunlight is what causes the moon to shine. Lunar eclipse usually lasts for a few hours. Atleast two partial lunar eclipse occur every year.

Penumbra

Q6 **a)** Data Given

Five yr ago Father was thrice of Son age

if Son = 30yr now

Current age of father = ?

Suppose

Five years ago Father age was = 75
After 5 year it would be ⟹ 80

As it is mentioned in question
that son age is 30 now, it
means by that son was 25 years
old and Father was 75, so now
his father moves to ⟹ 80

b) Data

Mean of 10, 30, y, 50 = 50

$$y = ?$$

As we know,
Mean is divided by the total number

so

$$Mean = \frac{10 + 30 + 50 + y}{4}$$

Answer is given, which is 50,50
then we would add value which
would make the given answer.

$$\frac{20+30+50+110}{} = 50$$

That missing value is = $\boxed{110}$

c) e) Missing number

i) 2, 6, 18, 54, 162

→ Multiply by 3

ii) 3125, 256, ~~16~~ , 4, 1

d) Data

Product of two no = 320

Ratio = 1:5

Difference b/w squares of $\Big\}$ these

two no

sol First we have to find the two
numbers

suppose,

These values are:

$$16 \times 20 \Rightarrow 320$$

But It gives 320 but It ratio would not fulfill the ~~require~~ given on which is 2:5

So we have to take another value which is,

$$8 \times 40 = 320$$

Ratio of them

$$\boxed{8 : 40}$$

$$2 : 5$$

Difference of squares would be

$$(8)^2 = 64$$

$$(40)^2 = 1600$$

So

$$1600 - 64 \Rightarrow \boxed{1536}$$

7 **a)** Given Date

Sold two scooties = 96000 each
First scooty = 20% Profit
Second = 20% loss

Sol

First scooty got 20% Profit, it means scooty price was,

$$80,000 \times 1.20 \Rightarrow 96,000$$

However, the second scooty price was

$$120,000 \times 20\% \text{ loss} \Rightarrow 24000$$

So

$$120,000 - 24000 \Rightarrow 96,000$$

Now we have both scooties original prices In first scooty women earned around 18000 while in second she lost 24,000.

So   Gain ⇒ 16,000
       loss = 24,000

P/ Total loss ⇒ 24000 + 16000

Total ⇒ 8000 in loss

b) Data

195 men
20 Hrs
Job done in 20 days
How many men employed to finish in 15 days

Sol

Men	Hours	Days
195	20	20
x	13	15

$$\frac{x}{195} = \frac{10}{13} \times \frac{20}{15}$$

$$\frac{x}{195} = \frac{200}{195}$$

Multiply 195 on both sides

$$\frac{195 \times x}{195} = \frac{200}{195} \times 195$$

$$\boxed{x = 200}$$

It means 200 men would be required to finish the job in 15 day if they work for 13 hours.

5) Data

if $A = \{a, e, i, o, u\}$, $U = \{a, b, c, \ldots z\}$

Find A'

Sol   As we know that
$A' = A - U$

so
$A' = \{a, e, i, o, u\} - \{a, b, c \ldots z\}$

$A' = \{b, c, d, f, g, h, j, k, l, m, n, p, q, r, s, t, u, w, x, y, z\}$