

## Cop-28

Conference of parties (COP) held in Dubai, in 2023. 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 \$200 billion to developing countries from developed world and focused on livelihood and displaced persons was the main factor of it.

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

a Secondly, rectifying climate finance of \$200 billion which were pledged by developed countries to developing world particularly for the most affected countries

4) Thirdly to prioritize the livelihoods of most vulnerable populations

5) Lastly to ensure full inclusivity so that last 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 release those extra calories by doing exercise. In this way the balance of diet would be maintain.

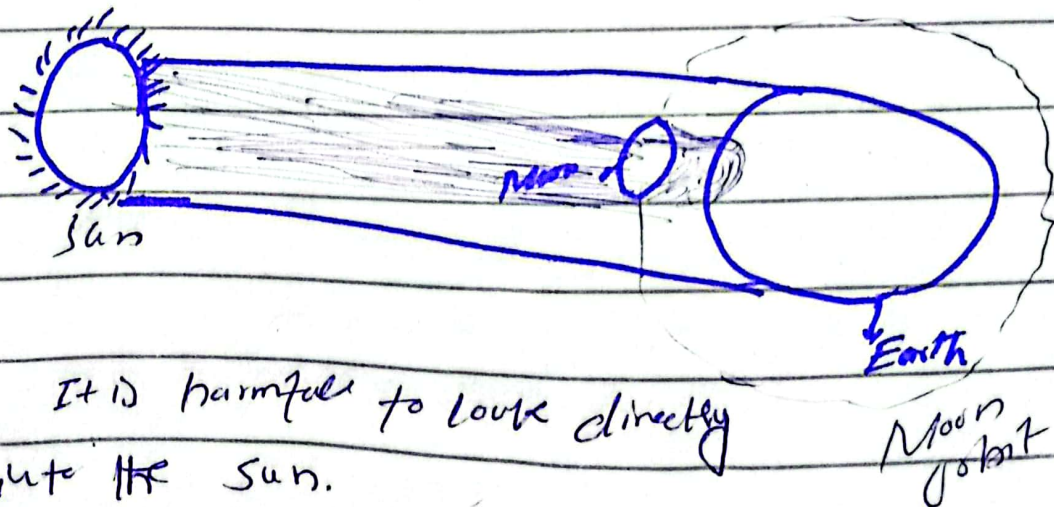
d) CEPEC is project of China under Belt and Road initiative, it initiated in 2013 while CEPEC is operationalized since 2015. It brought alot of packages to Pakistan, be it solar energy, infrastructure corridors or special economic zone.

However, the three renewable energy resources are solar, LED <sup>optical fiber</sup> and wind. Through these renewable sources they would create 8000MW which ultimately completing the desire need of electricity. Both solar and wind are the directly 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 ~~prod~~ products.

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## 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 happens once in every 18 months.

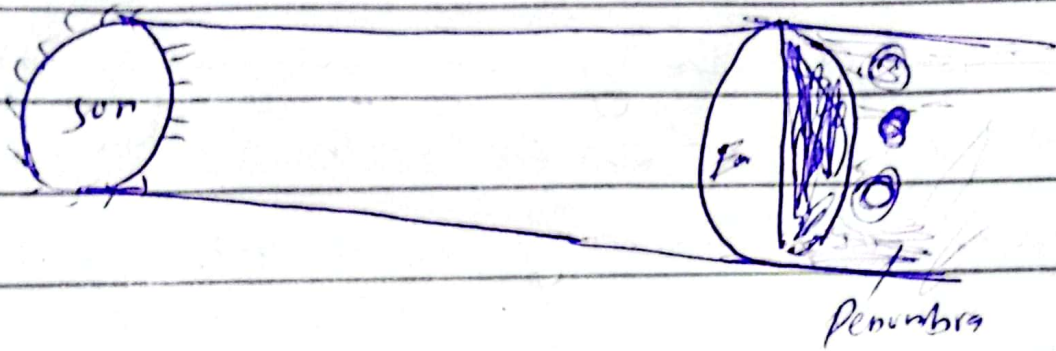


It is harmful to look directly into the sun.

## 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 happens the Earth blocks the sunlight that

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



## Section-22

Q6 a) Data Given

Five yr ago Father was thrice of Son age

if son = 30 yr now

Current age of father = ?

Suppose

Five year, ago Father age was = 75

After 5 year it would be  $\Rightarrow$  80

As it is mentioned in a 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  $\boxed{80}$

b) Data

$$\text{Mean of } 10, 30, y, 50 = 50$$

$$y = ?$$

As we know,

Mean is divided by the total number

so

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

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

$$\frac{10+30+50+110}{4} = 50$$

That missing value is  $\boxed{220}$

c) a) 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 these  
two no

sol First we have to find the two  
numbers

suppose,

These values are:

$$16 \times 20 = 320$$

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

So we have to take another value which is,

$$8 \times 40 = 320$$

Ratio of them

$$\boxed{\begin{array}{l} 8 : 40 \\ 2 : 5 \end{array}}$$

Difference of squares would be

$$(8)^2 = 64$$

$$(40)^2 = 1600$$

So

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



7 a) Given Data

Sold two scooters = 96,000 each

First scooter = 20% Profit

Second = 20% loss

Sol

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

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

However, the second scooter price was

$$120,000 \times 20\% \text{ loss} \Rightarrow 24,000$$

So

$$120,000 - 24,000 \Rightarrow 96,000$$

Now we have both scooters original prices  
In first scooter woman earned  
around 16,000 while in second  
she lost 24,000.

$$\text{So Gain} \Rightarrow 16,000$$

$$\text{Loss} = 24,000$$

$$\text{Total loss} \Rightarrow 24,000 - 16,000$$

$$\text{Total} \Rightarrow 8,000 \text{ in loss}$$

b) Data

195 Men

20 hrs

Job done in 20 days

How many <sup>men</sup> employed to finish in 15 days

sol

Men	Hours	Days
195	10	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

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

$$\boxed{x = 200}$$

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

Q) Data

$$\text{If } A = \{a, e, i, o, u\}, U = \{a, b, c, \dots, z\}$$

Find  $A'$

Sol As we know that  
 $A' = \cancel{A} A - U$

so

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

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