

Habis Saibeen

G.S.A

Part 2

Section 1

### General Instructions

1. Give numbering to headings
2. Do not write lengthy paragraphs. Write medium sized paragraphs with headings.
3. Do not use table for comparison and contrast questions. Give small paragraphs with headings instead.
4. Draw figures/diagram/flowchart/map in every question.
5. Start new question from fresh page.
6. Explain the steps in your mathematical calculations.
7. Do not forget to write the unit of your answer while attempting mathematics questions.
8. Do not use lead pencil. Only blue and black colours are allowed.

Cyclone is derived from cyclone which means "rotation". It is a system of rotating winds around a low pressure core due to pressure gradient and Coriolis effect of spin motion in the earth.

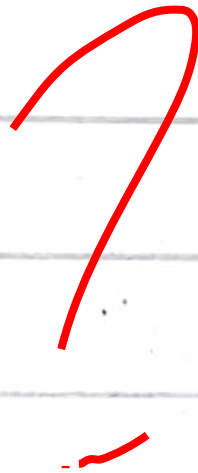
It is caused by  
**causes**

- 1 Warm temperature at sea surfaces
- 2 Atmospheric instability.

another object is  
it's revolution.

Years come and  
go with help of  
Earth's ~~revolution~~  
about Sun.

Structural Parts:



3 Coriolis force impact area that forms a low-pressure zone.

### Regions:

There are 3 regions of cyclone

- 1 Eye
- 2 Eye wall
- 3 Ring-shaped region

Diagram?

winds in cyclone are most powerful in "Eye wall"

b

### Black hole:

This is a region is space.

In this region, light can not escape because pulling force of gravity is very strong and it

Q No 4:

(a) The collection, treatment and disposal of solid material that is discarded because it is no longer useful. This process is called solid waste management.

SWM Strategy in Pakistan:

Government has assigned tasks on municipal level to committees for collection of solid and other sorts of waste collection.

The municipal system in Pakistan is far from satisfactory.

increasing day by day. This is the time to seriously think about this issue as it is underrated in Pakistan.

### Reasons:

There are different reasons of increase in population rate in Pakistan.

illiteracy

Increased Birth Rate

Decreased Mortality Rate

### Steps:

Awareness should be spread about family planning.

Contraceptives measure should be adopted.

Literacy rate is need to be increased so that people know about affects of increased population.

(d)

### Montreal Agreement:

It was a global agreement to protect ozone stratospheric layer by producing ozone depleting substance. It happened in 1987.

### Kyoto Protocol:

Kyoto Protocol is about global warming and reducing CO<sub>2</sub> emissions.

## Ionic Bond

A chemical bond which is formed by complete transfer of electron from one atom to another atom is called ionic bond.

i.e. NaCl

Z of Na = 11

Z of Cl = 17

They combine because they want stability.

Stability comes by maximizing electrons in outer most shell by octate rule for overall stability.

8 electrons should be minimum.

$\text{Na}^+ \text{Cl}^-$

Opposite charges attract each other.

does not allow light to escape.

Most of the times, it is believed Black Holes are formed in result of Dying Star's.

### Formation of Black Hole

Matter presses into a tiny space causing formation of Black Hole.

C

### Rotation, Revolution of Earth

Rotation is object's spinning motion around its axis. Earth's rotation around its own axis in result day and nights are produced.

Meanwhile earth's orbital motion around



whether it is  
industrial level,  
health care level  
or municipal level.

The Government of  
Pakistan in 2021 set  
a target to reduce  
GHG emission to 20%.

## Methods for Better SWM

- 1 waste prevention
- 2 Recycling, Reuse
- 3 Biological Treatment
- 4 Landfill Disposal.

LC)

Pakistan is 5th  
most populous country

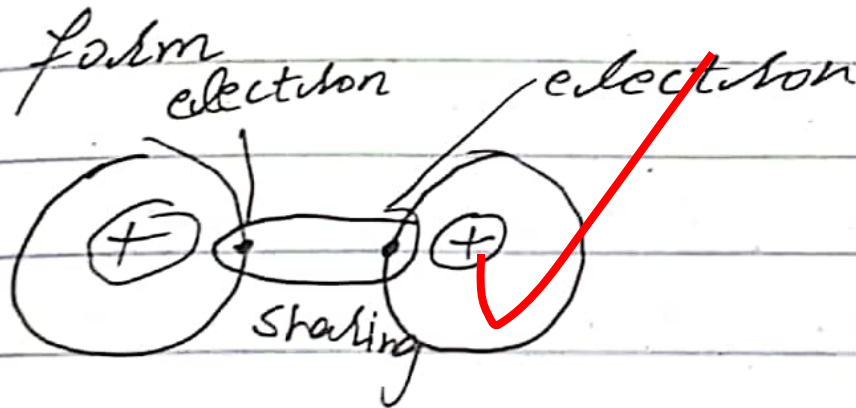
Pakistan is  
currently 5th most  
populous country on  
Global chart.

It's population is

## Covalent Bond:

A bond which is formed by mutual sharing of electrons between atoms

i.e Hydrogen Gas  $(H_2)$  in diatomic form



They share affect of each other.