

Date: ...../...../20.....  
What is Dengue fever? Causes  
Symptoms and it's cure.

Dengue is a viral infection that can spread by the bite of an infected Aedes mosquito. It is most common in tropical and watery areas.

### Causes:

Dengue fever is caused through the bite of an infected mosquito. No one get dengue fever from an infected person.

### Symptoms:

Symptoms of dengue fever starts three to fourteen days after bite a mosquito.

These may include high fever, headache, vomiting, muscles and joints pains, skin itching and skin rashes.

In some cases dengue become fatal, Patient's blood pressure low dangerously. Their platelets level in blood start low. Bleeding starts from mouth muscles.

### Treatment:

Dengue fever duration is 2 to 7 days.

There is no proper treatment for dengue fever.

However in high fever we use paracetamol.

Patient should use Juices and water to maintain their body balance.

Aspirin is dangerous for patient.

### Prevention:

One should use full sleeve in morning and evening time to prevent from dengue. Exalticite fresh and rainy water

# D/T D/W renewablen and non-renewables Sources of Energy.

Do not use columns for comparison. Write small paragraphs with subheadings instead.

Renewable Source	Non-renewable
Renewable sources are those which can be recycle naturally by human.	Non-renewable resources cannot be recycle by human beings.

Example	Expa Example
Solar energy	Nuclear Energy
Wind energy	Coal, Natural gas
Hydro power, Biomass.	Oil.

Renewable sources have low $CO_2$ and are environmentaly friendly.	nonRenewable source have high $CO_2$ .
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low cost used on renewable source.	high cost used on non-renewable source.
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Other differences?

What is tornado? How is it formed.

Structure?

Locations/Areas

Diagram?

Tornado is a small but intense vortex of rising air associated with the strong updraft of an intense thunderstorm. It is generally occurs in mid-latitude.

The air speed of tornado ranges from 40-300+ mph and width is varies from few yards to more than a mile.

Apparently, it is a dark funnel cloud. While moving around the countryside when it touches the ground. it can destroy almost everything.

In Pakistan it is called Bhanwar Chakkari and Wahwaralia.

Formation:

During storm cold air and warm air combine in a set pattern.

The cold air drops and warm air rises. The warm air twists into a spiral and forms the funnel clouds that we all associate with a tornado.

Define vaccination? Explain its characteristics and Types?

Vaccine is a killed or half killed microorganisms into the body to protect it against the specific disease by inhance the immune system.

Edward Jenner in 1796 invent vaccine against small pox.

Characteristics of Vaccines:

- I Vaccine are given orally or intramuscularly.
- II Vaccine are safe and reliable but not perfect

iii It provide immunity within two weeks

iv A single dose of some vaccines provide a life long protection against infection

## Types of vaccines:

### Live attenuated vaccines:

These vaccine contain living microbes that has been weakened in the lab so it can't cause disease.

### Killed or inactivated vaccines:

Inactivated vaccine produce by killing the disease caused microbes with heat, chemicals or radiations

### Subunit Vaccines:

Subunit vaccine includes only antigen that are best to stimulate immune system.

### Toxoid vaccine

These vaccines are used

When a bacterial toxin is the main cause of illness

### DNA Vaccine:

Use the gene that code for important antigens of microbes.

What is pesticides? and how it is lethal for human beings.

Pesticides is any substance organic or inorganic that is used to destroy or inhibit the action of pests.

### Effect on Human :

- i. Mishandeling of pesticide during their use can kill the farmers.
- ii. These can kill beneficial insects

- iii These can cause skin cancer.
- iv Main source of environmental pollution.
- v People are using pesticide as suicidal agent.
- vi insecticides can enter into fruits and then enter into the human body and cause different disease.

No bullet points.. Write small paragraphs with headings.

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Date: ...../20.....  
What is earthquake?

The sudden shaking and jolting of the earth's surface is called Earthquake.

Diagram?

Formation of Earthquake:

When stress in the crust, the outermost layer of earth, exceeds the strength of the rock, it breaks along the lines of weakness.

- 1 The starting point of the Earthquake is termed the hypocenter or focus and may be hundred of meters deep in the earth.
- 2 The point at the earth surface directly above the earth is called earthquake epicenter.

Cause of Earthquake:

The most common cause of earthquakes are

Fault zone Plate tectonic  
Volcanic activity, human activity

## What is Black hole?

A Black hole is a cosmic body in the center of almost every galaxy in the universe.

The gravity and density inside the black hole is so strong that it can attract everything coming toward it. even electromagnetic wave cannot escape. Hence a black hole cannot be observed directly.

The first black hole was discovered in 1964.

## Formation of Black hole:

A black hole is formed by the death or explosion of extremely massive stars with sizes of more than three solar system masses.

What is polio? Discuss its symptoms, cause of spreading, prevention and vaccine.

Poliomyelitis or poliovirus mostly occurred in childhood and it is found all over the world. It is a viral disease mostly occurred in children younger than five years.

Symptoms:

Muscles pain and stiffness

Headache and sore throat

Fever, fatigue and nausea or vomiting

Causes of spreading:

It may spread through stool

Contaminated water

Saliva

Vaccines? Types?

IDV

OPV