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# 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 renewable and non-renewable sources of Energy.

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**  
Solar energy  
Wind energy  
Hydro power, Biomass.

**Example**  
Nuclear Energy  
Coal, Natural gas  
Oil.

Renewable sources have low $CO_2$ and are environmentally 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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What is tornado? How is it formed.

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 warms  
 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 micro-organisms  
 into the body to protect  
 it against the specific  
 disease by inhouse 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 ~~at~~ antigen that are best to stimulate immune system.

### Toxoid

These vaccine 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.
- vii insecticides can enter into fruits and then enter into the human body and cause different disease.

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

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

**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

IDV

OPV