

Homework

WHY DO WE FALL ILL

Q1. Why is immune system essential for our health?

Ans-1. The immune system of our body is a kind of defense mechanism to fight against ~~the~~ pathogenic microbes.

2. It has cells that are specialized

to kill infecting microbes.

3. It produces antibodies to kill the pathogens and keep us healthy.

Q2. Why vaccination is considered as prevention of diseases?

Ans - Vaccination is considered as ~~specific~~ ^{specific method of} prevention of diseases because:

1. Vaccines are made of dead or weakened antigens.
2. These antigens stimulate the production of antibodies.
3. ~~They~~ They also Memory cells remember the pathogen and persist in the body even in the absence of pathogen.
4. If the pathogen attacks the body again, the immune system with the help of memory cells recognise it and destroy it before it causes the disease.
5. Therefore, vaccination is considered as prevention of diseases.

Q3. Becoming exposed to or infected with an infectious microbe does not necessarily mean developing noticeable disease. Explain.

- Ans:
1. The immune system of our body is normally fighting off microbes.
 2. It produces cells that specialise in killing infecting microbes.
 3. These cells go into action each time infecting microbes enter the body.
 4. If they are successful, we do not actually suffer from any disease.
 5. The immune cells manage to kill off the infection long before it assumes major proportions.
 6. Therefore, becoming exposed to or infected with an infectious microbe does not necessarily mean developing noticeable disease.