

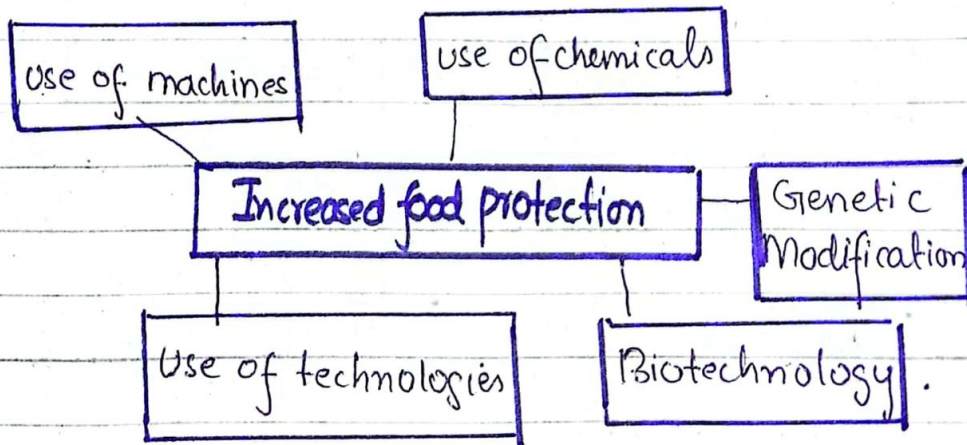
General Science And Ability MOCK

Section I.

Q3

(a) Technological Advancement leading to increase in food production and decrease in quality of food.

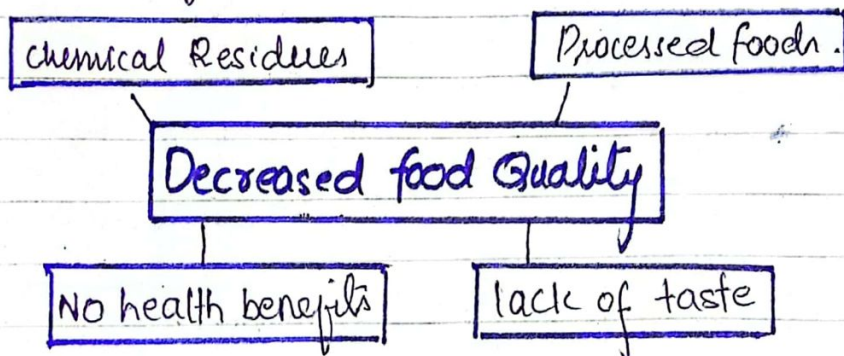
Ans The world is adopting technological Advancement rapidly in all fields but technological advancement in agriculture has significant impact on quality and quantity of food.



The production food gets increased due to technological advancement. Advanced use of machinery such as tractors and irrigation systems has significant impact on farming. The use of chemicals such

pesticides and fertilizers has boosted crop growth. Genetically modified organisms have been developed to enhance crop yields and tolerate harsh environmental conditions. Technologies like GPS, drones and different sensors help farmers monitor crop health.

Technologically advanced food industries make food in huge amount but the quality of food is decreased. Different machines in industries can produce good look food but quality matters.



As the quantity of production of food increases the quality of food decreases. In agriculture many residues are used left on food because of the use of chemicals, processed food lead to many health issues, there is no health benefit, lack of taste.

(b) ■ SOLID WASTE MANAGEMENT.

Ans Public Awareness:

Problems arise when people do not have public awareness of how to manage solid waste. Low levels of awareness in waste reduction cause problems.

Increase in population growth:

Rapid growth of population results in higher risk of waste which puts pressure on waste management system.

Lack of Infrastructure:

Developing countries face lack of infrastructure, having well infrastructure is important to deal with solid waste management.

Environmental and Health Impacts:

Improper waste disposal can lead to environmental degradation, pollution, and health hazards.

(c) DENGUE FEVER:

Ans Dengue fever is a disease caused by a virus that is spread through the bite of infected mosquitoes. The disease is prevalent in tropical and subtropical regions worldwide.

Symptoms of Dengue fever:

- ① High fever
- ② Severe Headache
- ③ Pain behind the eyes
- ④ Joint and muscle pain
- ⑤ Rash.
- ⑥ Mild Bleeding.

(d) PLATE TECTONICS IN THE TSUNAMI.

Ans Tectonic plates are present in the Earth's crust which is surface of Earth. These plates move slowly and sometimes bump into each other.

These tectonic plates move under the ocean, they can cause underwater earthquakes which is known as Tsunami. Big waves are created because these plates bump into each other.

Distinguish the Richter magnitude Scale and volcanic Explosivity Index.

Richter Magnitude Scale

Volcanic Explosivity Index

(1) Measure the size and magnitude of earthquakes

measures volcanic eruptions based on volume, height and eruption.

(2) focuses on amplitude of seismic waves.

focuses on impact of volcanic eruption.

(3) Scale ranges from 0 to 10

Scale ranges from 0 to 8.

(4) Richter scale is used for small to medium sized earthquakes

used to compare the explosiveness of historical and prehistorical volcanic eruptions.