

# Question 1

## Part a

Differentiate between food alteration and food contamination like controlling measures of food alteration.

### Food Contamination Vs. food alteration.

When food is harvested, it can be unintentionally contaminated. It may cause diseases as this contamination involves the hair, stones, dust, soil, wood, glass, oil and other microorganisms which may be harmful. This contamination can be removed by cleaning the food.

On the other hand, alteration is the intentionally contamination of food to increase the profit. It includes the chemicals applied on food.

### Controlling Measures

Some preventing measures can be adopted to decrease the bad effects of food alteration. Some of them are as follows:

- 1- Enhancing testing and quality control.
- 2- ~~Increase~~ Give public awareness and consumer education.
- 3- Strengthening regulations and enforcement.

## Part b

Describe five food preservation methods with example.

To prevent food decomposition, some preservation methods are followed which are given below.

### 1. Natural food preservation

Food can be naturally preserved through canning, drying, pickling, fermentation etc.

### 2. Chemical food preservation

↓ Freezing      ↓ Irradiation      ↓ Salting      ↓ Sulphur dioxide      ↓ Lactic acid

### 3. Artificial preservation

Benzoates      Propionates      Sorbates

## Part c.

### Temperature

Temperature is the degree of hotness or coldness of weather. It tells about the weather's heat and can be measured by different gadgets like thermometer.

### Pressure:

Earth is surrounded by a cover of air. The force applied on per unit area of atmosphere is known as pressure. It can be determined using

humidity

## Humidity

In the earth's atmosphere the quantity of water vapour present is called humidity of weather. Humidity can be calculated using hygrometer.

## Part d

### Earth Quack

An earth quack is the sudden movement of earth due to movement of tectonic plates. It is caused due to the sudden release of strain energy in the earth crust.

Earth quack can be measured using seismograph.