

## Competency based questions

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Qu.1. What is pasteurization? How is it useful?

Pasteurization of milk consists of heating it to high temperature of 70°C for adding the flavor. This method was invented by Louis Pasteur.

Qu.2. What are vaccines? How does a vaccine work?

Vaccines consist of dead and weakened microbes. When these are swallowed or injected into the body of a patient, the body produces antibodies to fight them. The antibodies remain in the body and protect it from any future attack of disease germs.

Qu.3. Which microorganism acts as decomposers? How is this activity useful to us?

Microorganisms such as bacteria, fungi and protozoa help by decomposing the tissues of dead organisms to get their food. The nutrient that were taken from the soil by plants and animals and restored and are used again by living organisms.

Qu.4. Describe the role of Rhizobium in maintaining soil fertility?

Rhizobium bacteria are capable of converting the atmosphere nitrogen into nitrates and nitrites thereby increasing soil fertility.

Qu.5. What is communicable disease?

Diseases that spread from an infected person to healthy individual through air, water or direct contact is called communicable diseases.

Qu.6. Microbes will never grow food keep inside refrigerator? Do you agree why?

Refrigeration only delays but do not completely rule out the possibility of food spoilage. If the food is taken out of the freezer, the microbes start growing again.

Qu.7- What do you mean by Food preservation and Food poisoning

**Food preservation:** Processing of food to prevent their spoilage and retain their nutritive value or long periods is called food preservation.

**Food poisoning:** Food has to be preserved for later use and should be kept fresh. If microbes grow on it the food gets spoilt and many cause food poisoning.

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