

**DR KANAILAL BHATTACHARYYA COLLEGE**

**DEPARTMENT OF FOOD AND NUTRITION**

**MODEL ANSWER**

**1. Why do we store food material at low temperature?**

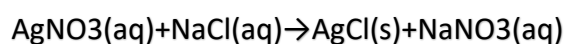
Microorganism are not killed by low temperature but their multiplication & activities are inhibited, low temperature also retard chemical changes, enormous quantities of eggs, fruits, vegetables, meat are hold in the cold temperature so that may be made available for large proportion of the year.

**2. Why is food heated to a high temperature before being canned?**

Food heated to a high temperature to destroy essentially all micro-organism before being canned.

**3. What happens when silver nitrate solution is added to sodium chloride solution?**

When silver nitrate solution is added to sodium chloride solution, then a white precipitate of silver chloride is formed along with sodium nitrate solution.



**4. Which reagent is used to distinguish between formaldehyde and acetaldehyde?**

On treatment of formaldehyde and acetaldehyde with iodine in the presence of base, acetaldehyde gives off yellow colour precipitation while formaldehyde does not react with it. This is known as iodoform reaction and the test is called **iodoform test**.

**5. How does bile help in the digestion of fat ?**

Bile is the digestive juice secreted by the liver. Although it does not contain any digestive enzymes, it plays an important role in the digestion of fats. Bile juice has bile pigments such as bilirubin & biliverdin. These pigments break down large fat globules into smaller globules so that the pancreatic enzymes can easily act on them. The process is known as emulsification of fats. Bile juice also makes the medium alkaline due to the presence of  $\text{NaHCO}_3$  & also activates lipase.

**6. How does blood sugar level regulated within our body?**

Together, insulin and glucagon help maintain a state called homeostasis in which conditions inside the body remain steady. When blood sugar is too high, the pancreas secretes more insulin. When blood sugar levels drop, the pancreas releases glucagon to raise them.

