

Short Answer Questions

Q.1. Boojho took some grains of boiled rice in test tube 'A' and Paheli took boiled and chewed rice in test tube 'B'. Both of them poured 1–2 drops of iodine solution into the test tube and observed the colour change. What colour change would they have observed? Give reasons for your answer.

Ans. The food items would be fat because bile juice of the gall bladder helps in the digestion of fat. Removal of gall bladder leads to difficulty in digestion of fatty substances.

Q.2. Ruminants such as cows and buffaloes swallow their food hurriedly and then sit restfully and chew their food. Can you reason why?

Ans. This is done for complete digestion of the food. When the food is swallowed by ruminants, it is only partially digested. It is then again chewed for its completed digestion.

Q.3. What is ORS? When is it given?

Ans. ORS stands for oral rehydration solution. It is given when body loses lot of water such as in diarrhoea.

Q.4. Name the organs involved in the digestion of food in humans.

Ans. The organs involved in digestion are mouth, oesophagus, stomach, liver, small intestine, gall bladder and large intestine.

Q.5. In which part of the human digestive system are bacteria present in the food killed? Explain how.

Ans. Bacteria in food are killed in stomach. The inner lining of stomach secretes hydrochloric acid and digestive juices which kill the bacteria in food.

Q.6. Why we cannot digest cellulose like the cattle do?

Ans. Cattle is grass eating animal, that contains cellulose and human being cannot have certain enzymes or bacteria to digest cellulose.

Q.7. What is the difference between human digestive system and alimentary canal?

Ans. Digestive system of human beings consists of an alimentary canal and associated glands while alimentary canal has mouth, oesophagus, stomach, small intestine, large intestine and Anus.

Q.8. What are the various steps involved in Digestion process?

Ans. Digestion is a complex process involving

- ingestion

- digestion
- absorption
- assimilation
- egestion.

Q.9. 'A' got her gall bladder removed surgically as she was diagnosed with stones in her gall bladder. After the surgery, she faced problems in digestion of certain food items when consumed in bulk. Can you tell which kind of food items would they be and why?

[NCERT Exemplar]

Ans. The food items would be fat because bile juice of the gall bladder helps in the digestion of fat. Removal of gall bladder leads to difficulty in digestion of fatty substances.