

Ch-2 Nutrition in animals!

1. Fill in the blanks :-
- The main steps of nutrition in humans are ingestion, digestion, absorption, assimilation and egestion.
 - The largest gland in the human body is liver.
 - The stomach releases hydrochloric acid and digestive juices which act on food.
 - The inner wall of the small intestine has many finger-like outgrowths called villi.
 - Amoeba digests its food in the food vacuole.
- Q2 Mark 'T' if the statement is true and 'F' if it is false.
- Digestion of starch starts in the stomach (F).
 - The tongue helps in mixing food with saliva (T)
 - The gall bladder temporarily stores bile (T)
 - The ruminants bring back swallowed grass into their mouth and chew it for some time (T)

Q3 Tick (✓) mark the correct answer in each of the following:

- a) Fats is completely digested in the
- i) Stomach
 - ii) mouth
 - iii) ✓ Small intestine
 - iv) large intestine
- b) Water from the undigested food is absorbed mainly in the
- i) Stomach
 - ii) Food pipe
 - iii) Small intestine
 - iv) ✓ large intestine

Q4 Match the items of column I with those given in column II

Food components ————— Product (s) of digestion

Carbohydrates ————— Fatty acids and glycerol

Proteins ————— Sugar

Fats ————— Amino acids

Q5 What are villi? What is their location and function?

Ans The inner wall of the small intestine have thousands of finger-like out growths. These are called villi. Villi are present in inner wall of small intestine.

Villi increase the surface area for absorption of the digested food.

Q6) Where is the bile produced? Which component of the food does it help to digest?

Ans Liver secretes bile. The bile plays an important role in the digestion of fats.

Q7) Name the type of carbohydrate that can be digested by ruminants but not by humans. Give the reason also?

Ans ~~Cellulose~~ Cellulose is the carbohydrate that can be digested by ruminants but not by humans. Bacteria that digest cellulose, are found in rumen of ruminants not in humans.

Q8) Why do we get instant energy from glucose?

Ans Glucose is the simplest form of carbohydrate. It can be broken down easily to give energy.

Q9) Which part of the digestive canal is involved in?

i) absorption of food small intestine

ii) Chewing of food Buccal cavity

iii) Killing of bacteria Stomach

iv) complete digestion of food Small Intestine

vi) Formation of faeces Large Intestine

Q10. Write one similarity and one difference between the nutrition in amoeba and human body?

Ans Similarity - Both amoeba and human use digestive juice to digestive foods.

Difference - Human needs to chew food. Whereas in amoeba, there is no chewing.

Q11. Match the items of column I with suitable items in column II
Column I

i) Salivary gland

a) Storage of undigested food

ii) Stomach

b) Bile juice secretion

iii) Liver

c) Saliva secretion

iv) Rectum

d) Acid release

