



# KALPAVRUKSHA MODEL SCHOOL

## Answers Assignments - 4

**Class: VII**

**Sub: Biology**

**Date: 10.07.2021**

**Topic: Nutrition in animals**

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### **I. Answer the following questions:**

1. What are ruminants? Name two examples.

Ans: A plant eating animal that brings back swallowed food into the mouth to chew it again is called a ruminant.

Ex : cow and horse.

2. Differentiate between ingestion and egestion.

<b>Ingestion</b>	<b>Egestion</b>
1) The intake of food into the body is called ingestion.	1) The process of the removal of waste matter from the body is called egestion.
2) Digestion starts in this process.	2) Digestion ends with this process.
3) Mouth, tongue, teeth involved in this process.	3) Rectum, anus involved in this process.

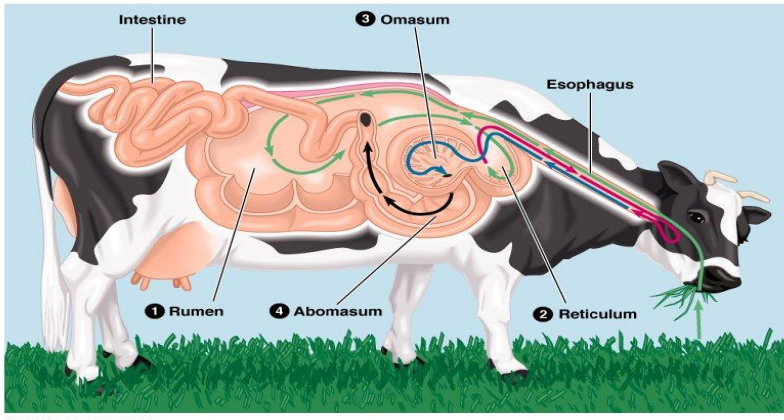
3. Describe the digestion in ruminants.

**Ans:** Digestion in ruminant consist of

**ingestion:** The food is taken in with the help of the tongue and chewed.

**digestion:** The stomach of ruminants has four chambers: **rumen, reticulum, omasum** and **abomasums**.

**rumen:** It helps in storing the large quantities of food. The food is partially digested is called the cud. The rumen has billions of bacteria and protozoa, which break down the cellulose found in grass.



**reticulum:** It helps in moving the swallowed food back into the mouth for chewing. It opens into the omasum.

**omasum:** It absorbs excess water.

**abomasums:** The walls of the abomasums secrete digestive juices.

**absorption:** The food from the abomasums passes into the small intestine. Most of the

digestion of carbohydrates, proteins, and fats takes place here. The small intestine leads into the large intestine and eliminates the undigested food as faeces.

4. Explain the link between respiration, nutrition and circulation.

Ans: Circulation links respiration and nutrition. Through nutrition nutrients are taken in by body which is absorbed in blood stream.

Through respiration, exchange of gases takes place in blood. Both nutrients and gases are transported to cells and tissues of the body through blood by the process of circulation.

5. Human beings do not have a chambered-stomach like cows. Why do we lack the process of rumination? Explain briefly.

Ans: In case of human we are omnivores and not totally dependent on green leaves etc for our food, so need of digesting cellulose is less compared to herbivores animals like cow deer etc. ... That is why, we don't possess chambered stomach.

6. Is it advisable to skip meals? Give reasons for your answer.

Ans: No it is not advisable to skip meals. If you are feeling hungry and you decided to diet and is remaining hungry, than you are actually damaging the walls of your stomach inside as stomach secretes HCl at regular interval of time it leads to acidity. Hence its not advisable to skip meals.