

BIJENDRA PUBLIC SCHOOL, PURNEA

Class - 7

Subject - SCIENCE

Chapter - 2 Nutrition in Animals and Humans

A. Very Short Answer Questions

1. Name two organisms that live on liquid food only.

Ans. Two organisms that live on liquid food only are :-
Mosquitoes and Butterflies

2. Name the cavity in unicellular animals in which food is present.

Ans. Food Vacuole

3. What is the which hard substance that covers the teeth?

Ans. Enamel

4. Name the process in which absorbed is used for producing energy.

Ans. Assimilation

5. What is the sticky film on teeth consisting of food particles, saliva and bacteria called?

Ans. Plaque

B. Short Answer Questions

1. Name the digestive gland present in the digestive system.

Ans. The digestive gland present in the digestive system are :-
Salivary glands, liver, pancreas and gall- bladder.

2. What is the function of large intestine?

Ans. Large intestine removes most of the water and certain salt from the waste by absorption and then sent it to the rectum.

3. What is the structure of stomach in ruminants?

Ans. The ruminant stomach has 4 compartments.

i. Rumen

ii. Reticulum

iii. Omasum

iv. Abomasum

4. Show with the help of a flowsheet diagram the nutritional process in Amoeba.

Ans. The diagram of, the nutritional process in Amoeba (Page no.- 24)

5. Write two suggestions for the proper care of teeth and gums.

Ans. For the proper care of teeth and gums, we have to :-

i. Do brush properly our teeth everyday in the morning and again before going to bed.

ii. Wash our mouth thoroughly with water after every eating.

C. Long Answer Type Questions

1. Mention the various steps involved in the process of nutrition.

Ans. The various steps involved in the process of nutrition are :-

i. Ingestion

ii. Digestion

iii. Absorption

iv. Assimilation

v. Egestion

2. How many teeth do we have in our mouth? Classify them into various types. What kind of function do they perform?

Ans. First set of 20 teeth appears by the age of 2 years, it is called milk teeth and after the fall off one by one, a new set of 32 permanent teeth is appears by the age of 12.

There are four types of teeth.

Type of teeth	-	Function
Incisors	-	Biting / Cutting
Canines	-	Tearing
Premolars	-	Chewing, Grinding
Molars	-	Chewing, Grinding

3. Name the various organs which constitute the digestive system.

Ans. The various organs which constitute the digestive system of human beings :-

i. Alimentary canal

- * Buccal cavity
- * Food pipe or oesophagus
- * Stomach
- * Small intestine
- * Large intestine
- * Rectum
- * Anus

ii. Digestive glands

- * Salivary glands
- * Pancreas
- * Liver
- * Gall bladder

4. Draw a labelled diagram of alimentary canal.

Ans. The diagram of Human Digestive System in the page no. 19.

5. How do the grass-eating animals digest cellulose?

Ans. Grass is rich in cellulose and most animals and human beings cannot digest cellulose.

Grass eating animals (called - Ruminants) have a large sac like structure called caecum between small intestine and large intestine. Cellulose can be digested here by the action of cellulose - digesting bacteria.

6. Tick (✓) the odd-one out giving reason.

- i. Amoeba
- ii. Canines
- iii. Plaque
- iv. Kidney
- v. Pseudopodia

E. Define the following terms:

1. Nutrition

Ans. Various aspects of obtaining food, mode of intake of food and its utilization in the body for growth and development is known as nutrition.

2. Tooth enamel

Ans. The white part of a tooth and it is the hardest substance in our body. It is deposited outside the crown of the tooth. Enamel contains calcium salts.

3. Digestive glands

Ans. There are four digestive glands present in the human body, these are :-

* Salivary glands

* Liver

* Pancreas

* Gall bladder

There are some different secretion that are releases in digestive system which helps in proper digestion.

4. Rumination

Ans. In the grass - eating animals, they swallow half chewed grass quickly and store it in the rumen which is called cud. When the animals are not eating, the cud returns to the mouth in small lumps and is chewed. This process is called rumination.

5. Contractile vacuole

Ans. In the Amoeba body, the undigested food is thrown out of the body through the contractile vacuole at any point because Amoeba has no anus.