# **Nutrition in Animals**

### **ORAL QUESTIONS**

## A. Answer these questions orally.

- 1. What is the watery secretion of salivary glands called?
- 2. Name two ectoparasites.
- 3. Name two endoparasites.
- 4. What is the mode of nutrition in herbivorous, carnivorous and omnivorous animals called?
- 5. Does *Amoeba* have mouth or anus?
- 6. What is the approximate length of the oesophagus in humans?
- 7. Name the hardest substance in our body.
- 8. Name the enzyme present in saliva.

# **PUZZLE/QUIZ**

# B. Find eight terms related to the chapter Nutrition in Animals. Write a few lines on them.

R	Р	Χ	F	Ο	V	С	J	N	D	D	В
U	D	S	Т	О	M	Α	С	Н	Ι	D	I
M	Е	K	Z	N	Α	F	S	С	G	L	L
I	Е	G	Е	S	Т	Ι	О	N	Е	Н	Е
N	Y	Q	R	M	Т	L	M	F	S	V	M
A	K	A	В	J	N	Ο	L	W	Т	I	J
N	R	R	Н	Ο	L	Ο	Z	Ο	Ι	С	Н
Т	О	N	G	U	Е	В	Н	Α	О	Q	V
S	W	Q	M	С	Т	L	Z	U	N	Е	Ι
I	N	G	Е	S	Т	Ι	0	N	0	S	L
Y	Χ	D	G	K	U	G	G	Е	Ι	I	L
S	С	A	V	Е	N	G	Е	R	S	Р	I

C.	Rewrite the following statements correctly.
1.	Water and salts are absorbed by the stomach during digestion.
2.	Absorption of digested food takes place in buccal cavity and oesophagus.
3.	Pigs are herbivores.
4.	Parasitic animals feed on dead and decaying organic matter.
5.	Vultures and crows are saprophytes.
6.	Amoeba has stinging cells that kill the prey.
7.	Plant food is deficient in cellulose.
8.	The correct order of the steps involved in holozoic nutrition is egestion, ingestion, assimilation, digestion, absorption.

# **CLASS TEST**

# D. $MCQ-Tick(\checkmark)$ the correct option.

1.	Which of the following statements	is inco	rrect	?				
	(a) The stomach of ruminants has two chambers.							
	(b) Plant food is rich in cellulose.							
	(c) Glucose is oxidised to release e	energy	insid	e the cells.				
	(d) Intestinal wall absorbs digested	d food.						
2.	The process by which simple molec	cules of	dige	sted food enter the blood is called				
	(a) Assimilation		(b)	Rumination				
	(c) Absorption		(d)	Egestion				
3.	Body louse is							
	(a) An ectoparasite		(b)	An endoparasite				
	(c) A scavenger		(d)	A saprophyte				
4.	Partly digested food stored in the ru	ımen o	of sto	mach in some grass-eating animals				
	is called.							
	(a) Caecum		(b)	Cud	Ш			
	(c) Cellulose		(d)	Starch				
5.	Which of the following protects the lining of stomach from the action of							
	enzymes and acids?							
	(a) Bile				Ш			
	(b) Pancreatic juice							
	(c) Mucus							
	(d) Villi							
E.	Very short answer questions.							
1.	What do the inner walls of the sma	ll intes	tine (	contain?				
2.	Where is excess of glucose stored?							

3.	Doe	es digestion occur in oesophagus?								
4.	Hov	w does ingestion occur in <i>Amoeba</i> .								
5.	How	w do frogs catch insects?								
<b>F.</b> 1.		ort answer questions.  Gerentiate between absorption and assimi	lation.							
		ABSORPTION	ASSIMILATION							
2.		Give the functions of the following.								
	(a)	Tentacles in <i>Hydra</i>								
	(b)	Cilia in Paramecium								
	(c)	Pseudopodia in <i>Amoeba</i>								
	(4)	Tongue in humans								
	(u)	Tongue in numans								

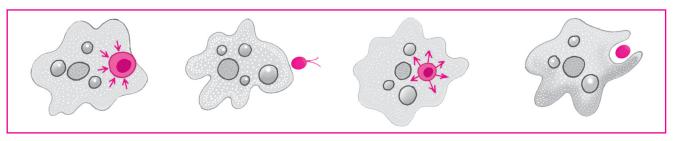
4. How do	How does ingestion occur in a cow?						
5. What do	oes alimentary canal	consist of?					
6. Name th	ne digestive glands fo	und in humans.					
7. Why can	n we not digest cellul	ose?					
3. Complet	te the following table	<u>.</u>					
	GAN OF THE STIVE SYSTEM	NUTRIENT PRESENT IN FOOD	END PRODUCT AFTER DIGESTION				
		Fats	Fatty acids and glycerol Simple sugars such as fructose and glucose				
_	swer questions.  how <i>Amoeba</i> derives	its nutrition.	<u> </u>				

2.	What happens to the food once it reaches the buccal cavity?
3.	What are the functions of the stomach?
4.	What are the functions of the small intestine?
5.	How is the small intestine designed for the efficient absorption of nutrients?
6.	Explain how digestion of food takes place in ruminants.

## **HOME ASSIGNMENT**

#### H. Think and answer.

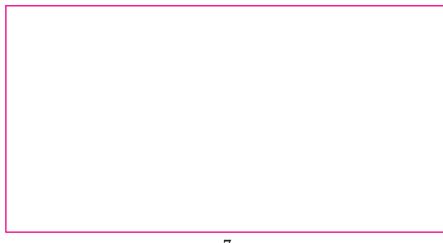
1. The steps involved in the digestion of food in *Amoeba* have been jumbled in the pictures shown below.



Redraw the pictures in the correct order.

2.	Aditi prepared the following four samples— (a) bitter gourd (karela) juice, (b) amla juice,
	(c) common salt solution and (d) sugar solution. She then asked her friend Aayushi to close
	her eyes and take out her tongue and keep it in a straight position. Aditi then placed a drop
	of each sample one by one on different regions of her tongue. Now draw diagram of the
	tongue and label it to show:

- (a) Which area of her tongue will detect the bitter substance?
- (b) Which area of her tongue will detect sweet substance?
- (c) Which area of her tongue will detect sour substance?
- (d) Which area of her tongue will detect salty substance?



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	Look at the following figures. Shobhit placed a piece of bread without chewing it in test tube B. However, he chewed another piece of bread and placed it in test tube A. He added little water and iodine solution in both the test tubes. He found that mixture placed in the tube B changed to blue-black colour. No change of colour was observed in test tube A. What could be the possible reason.	Iodine solution  Chewed bread piece t tube A	Iodine Solution  Bread piece  Test tube B					
	WORKSHEET							
	Give reasons for the following.  Earthworms are called saprophytes. Why?							
1	We should avoid eating starchy foods, toffees,	chocolates, etc.						