

### CHAPTER 1 – LIFE PROCESSES (I) NUTRITION

### A. Tick ( $\checkmark$ ) the correct option.

Clas	SS:	X		Date:				
Nan	ne:			Teacher's signature:				
5.	Finger-like projections	s present in small intestir	ne.					
	A. Part of alimentary canal where protein is absorbed.							
3.								
	Enzyme present in saliva.							
	A plant parasite.							
	Answer is one word.							
5.	. $CO_2$ is not essential for photosynthesis.							
	Large intestine absorbs water from the undigested food.							
	Guard cells are devoid of chloroplast.							
	Carbohydrates are stored in the form of glycogen in plants.							
	Bile juice is acidic in nature.							
	State whether the given statements are true (T) or false (F).							
	. The opening and closing of stomata is regulated by							
	<ul> <li>The oral cavity opens into the</li></ul>							
	. Amoeba exhibits nutrition.							
	Organisms that derive their food from decaying matter are called							
В.	Fill in the blanks.							
	a. dialysis.	· ·	c. phagocytosis.	d. amoebiasis.				
5.	The process of obtaining food by <i>Amoeba</i> is known as							
4.	In human body, food a. large intestine.	, .	c. stomach.	d. oesophagus.				
л	a. Trypsin	b. Ptyalin	c. Amylase	d. Lipase				
3.	The pancreatic juice does not contain which one of the following enzymes?							
	a. Carnivore	b. Omnivore	c. Herbivore	d. Autotroph				
2.	Which of the following has the longest small intestine?							
	a. autotrophic.	b. holozoic.	c. saprophytic.	d. parasitic.				
1.	The mode of nutrition in mushroom is							

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#### E. Answer the following questions.

- 1. Name the substances on which the following enzymes act in the human digestive system.
  - (*i*) Trypsin (*ii*) Amylase (*iii*) Pepsin (*iv*) Lipase
- 2. Describe the process of nutrition in Amoeba. Draw labelled diagrams to show the various stages of nutrition.
- 3. Why do plants need nitrogen? How do they obtain it?
- 4. How are opening and closing of stomata regulated? Write any two functions of stomata.
- 5. What substances are present in pancreatic juice? What are their functions?

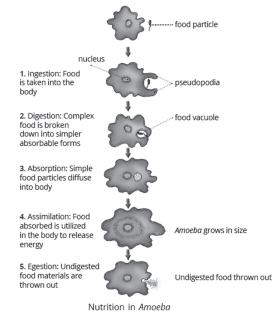
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### ANSWERS

#### WORKSHEET 2

A. Tick (✓) the correct option.								
1. c	2. c	3. b	4. b	5. c				
B. Fill in the blanks.								
1. Saprophytes	2. Holozoic	3. Pharynx	4. Lipase	5. Guard cell				
C. State whether the given statements are true (T) or false (F).								
1. F	2. F	3. F	4. T	5. F				
D. Answer in one word.								
1. Cuscuta	2. Ptyalin	3. Pepsin	4. Small intestine	5. Villi				
E. Answer the following questions.								

- 1. (i) Typsin Protein
  - (ii) Amylase Carbohydrate
  - (iii) Pepsin Protein
  - (iv) Lipase Lipid
- 2. The mode of nutrition in *Amoeba* is holozoic and the process of obtaining food by it is termed as phagocytosis. Process of nutrition in *Amoeba* is:
  - (*i*) **Ingestion:** The food particles are captured by pseudopodia. The tips of pseudopodia encircling the prey fuses to form food vacuole.
  - (*ii*) **Digestion:** Enzymes from the cytoplasm are secreted into the food vacuole which breaks complex food into simple form in the food vacuole.
  - (iii) Absorption: Digested food diffuses into the cytoplasm from food vacuole.
  - (iv) Assimilation: The absorbed food is utilized as per requirement in the cytoplasm and Amoeba grows.
  - (v) Egestion: The undigested food is thrown out of the body by exocytosis.



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Chapter 1 – Life Processes (I) Nutrition

3

3. Plants need nitrogen for the synthesis of proteins, nucleic acid and other essential compounds.

Nitrogen is obtained from soil in the form of inorganic nitrates or nitrites.

- 4. This opening and closing of stomata is regulated by the guard cell. The guard cells swell when water flows into them causing the stomatal pore to open. Similarly the pore closes if the guard cells shrink. Stomata helps in exchange of gases, loss of water during transpiration and helps in temperature regulation.
- 5. Pancreatic juice contains four enzymes trypsin, chymotrypsin, amylase and lipase.
  - (*i*) Trypsin and chymotrypsin act on proteins and convert them into polypeptides.
  - (ii) Amylase acts on starch and complex sugar and converts then to maltose.
  - (iii) Lipase acts on emulsified fats and converts them to fatty acids and glycerol.

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