

## 10<sup>TH</sup> CBSE LIFE PROCESSES Q

The kidneys in human beings are a part of the system for

- (a) Nutrition (b) Respiration (c) Excretion (d) Transportation

The xylem in plants is responsible for

- (a) Transport of water (b) Transport of food (c) Transport of amino acids (d) Transport of oxygen

The autotrophic mode of nutrition requires

- (a) Carbon dioxide and water (b) Chlorophyll (c) Sunlight (d) All of the above

The breakdown of pyruvate to give carbon dioxide, water and energy takes place in

- (a) Cytoplasm (b) Mitochondria (c) Chloroplast (d) Nucleus

Which part of alimentary canal receives bile from the liver?

- (a) Stomach (b) Small intestine (c) Large intestine (d) Oesophagus

A few drops of iodine solution were added to rice water. The solution turned blue-black in colour. This indicates that rice water contains

- (a) Complex proteins (b) simple proteins (c) fats (d) Starch

In which part of the alimentary canal food is finally digested?

- (a) Stomach (b) Mouth cavity (c) Large intestine (d) Small intestine

Choose the function of the pancreatic juice from the following

- (a) trypsin digests proteins and lipase carbohydrates  
(b) trypsin digests emulsified fats and lipase proteins (c) trypsin and lipase digest food  
(d) trypsin digests proteins and lipase emulsified fats

**<https://youtu.be/zwthV8tZceg>**  
**YOUTUBE LINK**  
**FOR ANS**

The blood leaving the tissue becomes richer in

- (a) Carbon dioxide (b) Water (c) Haemoglobin (d) Oxygen

Which of the following is an incorrect statement?

- (a) Organisms grow with time (b) Organisms must repair and maintain their structure  
(c) Movement of molecules does not take place among cells (d) Energy is essential for life processes

The internal (cellular) energy reserve in autotrophs is

- (a) Glycogen (b) Protein (c) Starch (d) Fatty acid

Which of the following equation is the summary of photosynthesis?

- (a)  $6\text{CO}_2 + 12\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{CO}_2 + 6\text{H}_2\text{O}$  (b)  $6\text{CO}_2 + \text{H}_2\text{O} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 + 6\text{H}_2\text{O}$   
(c)  $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Chlorophyll} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$   
(d)  $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Chlorophyll} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{CO}_2 + 6\text{H}_2\text{O}$

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**Assertion:** Nitrogen is an essential element used in the synthesis of proteins and other compounds in plants.

**Reason:** Plants take in nitrogen in the form of inorganic nitrates or nitrites.

**Codes**

- (a) If both assertion and reason are true and the reason is correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true and reason is false.
- (d) If both assertion and reason are false.

**Assertion:** Parasitic nutritive strategy is used by a wide variety of organisms.

**Reason:** It means they derive nutrition from plants or animals without killing them.

**Codes**

- (a) If both assertion and reason are true and the reason is correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true and reason is false.
- (d) If both assertion and reason are false.

**Assertion:** ATP is the output of the exothermic reaction that takes place in the cell.

**Reason:** ATP is used further by endothermic reactions.

**Codes**

- (a) If both assertion and reason are true and the reason is correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not a correct explanation of assertion.
- (c) If assertion is true and reason is false.
- (d) If both assertion and reason are false.

Where do plants get each of the raw materials required for photosynthesis?

What is the function of digestive enzymes?

What are the different ways in which glucose is oxidized to provide energy in various organisms?

What are the components of the transport system in highly organised plants?

How is food transported in plants?

Name the energy currency in the living organisms. When and where is it produced?

What is common for Cuscuta, ticks and leeches?

Explain the role of mouth in digestion of food.

Give the events that occur during photosynthesis

Explain the digestion in stomach

Explain digestion in the small intestine

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