



BIOLOGY

BOOKS - PEARSON IIT JEE FOUNDATION

NUTRITION IN PLANTS AND ANIMALS

Quick Recap

1. What is nutrition? Name different types of nutrition.



2. Write the difference between parasitic and saprophytic nutrition.



3. What are insectivorous plants? Give examples.



4. What is holozoic nutrition?



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5. What is gullet?



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6. What is peristalsis and why is it useful?



7. What are intestinal villi? Write its significance.



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8. What is tongue and mention its function?



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Test Your Concepts Fill In The Blanks

1. Fungus is an example of nutrition.



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2. Venus flytrap is a/an plant.



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3. Animal which eats other animal is called____.



4. Sharp teeth is a characteristic feature of __animal.



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5. ____ have digestive system meant to digest both plants and animals.



6. Photosynthesis takes place in the presence
of
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7. Green pigment necessary for photosynthesis is
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8. Flesh eaters are also called



9. Bear is an example of ___ animals.



10. During photosynthesis,___and water are used to make carbohydrates



11. Saliva is produced in mouth by
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12. is the site of absorption of nutrients
after digestion.
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13. is a small sac like structure where

digestive waste is stored temporally.



14. Water is reabsorbed in _____.



15. Opening at the end of digestive system is called .



16. ____ helps in the easy passage of food from oesophagus to stomach.



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17. ____is the process of waste removal from body.



18. Identify the word pair relationship:
____: Autotrophs
Carnivores:____

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Test Your Concepts Select The Correct Alternatives

1. ____is an example for a parasite.

A. Tiger

- B. Cuscuta
- C. Fungus
- D. Pitcher plant

Answer: B



- **2.** Head lice attain nutrition by nutrition.
 - A. parasitic
 - B. carnivorous

- C. saprophytic
- D. insectivorous

Answer: A



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3. Insectivorous plants trap insects to get____.

- A. oxygen
- B. hydrogen

C. carbon dioxide

D. nitrogen

Answer: D



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4. Which one of the following is a correct statement?

A. Holozoic nutrition involves depending on dead matter for nutrition

- B. Heterotrophs can synthesize their own food through photosynthesis.
- C. Fungus feed on dead and decaying matter for nutrition.
- D. Pitcher plant is an example for parasitic plant.

Answer: C



5. Organisms on which carnivorous organisms

feed are called ____

- A. parasites
- B. prey
- C. predator
- D. saprophytes

Answer: B



6. Among the following, which is/are required for photosynthesis? (i) CO_2 (ii) H_2O (iii) Sunlight (iv) Chlorophyll

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (i), (ii), (ii) and (iv)
- D. Only (iii)

Answer: C



A. animals
B. carnivores
C. insects
D. plants
Answer: D
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8 Omnivorous animals feed on

7. Herbivorous animals feed on____

- A. plants
- B. animals
- C. plants and animals
- D. dead and decaying matter

Answer: C



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9. Process of using absorbed energy for various body activities is called____

- A. absorption
- B. assimilation
- C. ingestion
- D. egestion

Answer: B



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10. Tube-like structure that connects mouth to oesophagus is called

B. pancreas
C. pharynx
D. intestine
Answer: C
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11. helps in fat digestion.
A. Bile

A. villi

B. Saliva
C. Pancreatic juice
D. HCI
Answer: A
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12. Protein digestion starts in____

A. stomach

B. mouth

- C. small intestine
- D. oesophagus

Answer: A



- **13.** Food from mouth enters____.
 - A. oesophagus
 - B. pharynx
 - C. stomach

D. intestine

Answer: B



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14. Which one of the following is a wrong statement?

A. Protein digestion starts in stomach.

B. In mouth, food undergoes both mechanical and chemical digestion.

C. Chemical digestion of food occurs in oesophagus.

D. Rectum stores waste material temporarily.

Answer: C



15. Opening/s of digestive system to the exterior is/are ___.

A. mouth

B. anus

C. gullet

D. Both (a) and (b)

Answer: D



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Mastering The Concepts Knowledge And Understanding

1. What is heterotrophic nutrition? Explain its different types.



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2. What is photosynthesis and why is it important?



3. Explain classification of animals based on the nutrition type.



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4. Compare the nutrition type in green plants and Cuscuta.



5. What is the difference between mode of nutrition in head lice and venus flytrap?



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6. Write the different steps involved in nutrition.



7. What are the different parts of human body involved in human digestion and mention their function?



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8. What is the difference between ingestion and egestion?



9. Give the functions of the Salivary glands.



10. Give the functions of the Stomach.



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11. What is the function of pancreas?



12. Write down the functions of liver.



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Mastering The Concepts Application And Analysis

1. Explain predator-prey relationship taking suitable example.



2. Fungus is a saprophyte. Justify the statement.



3. Human digestion is holozoic type. Justify the statement.



4. When we take a bite of bread, it does not taste sweet initially. But after sometimes, it

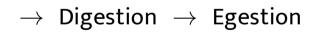
starts to taste sweet. Why?



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5. Aakriti made a mistake while writing down the steps of human digestion. Can you correct them?

Ingestion ightarrow Absorption ightarrow Assimilation





6. Think of some meat-eating animals that you have seen in a zoo, like tiger, lion. Have you noticed that their canines are different from the canines if a cow? Think and answer why.



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7. The gastric glands present in our stomach produce hydrochloric acid which activates the enzyme pepsin to digest proteins. Then, why is

it that our stomach does not get digested/damaged by the action of the acid?



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8. Although fibres are indigestible by human body, why is it advisable to have breakfast cereal that is high in fibre?

