



BIOLOGY

BOOKS - PEARSON IIT JEE

FOUNDATION

NUTRITION IN PLANTS AND ANIMALS

Quick Recap

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



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2. Write the difference between parasitic and saprophytic nutrition.



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3. What are insectivorous plants? Give examples.



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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?



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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_____.



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4. Sharp teeth is a characteristic feature of ___ animal.



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



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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_____.



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9. Bear is an example of ___ animals.



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10. During photosynthesis, _____ and water are used to make carbohydrates



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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 temporarily.



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14. Water is reabsorbed in _____.



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



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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.



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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



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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



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5. Organisms on which carnivorous organisms feed are called _____

A. parasites

B. prey

C. predator

D. saprophytes

Answer: B



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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), (iii) and (iv)

D. Only (iii)

Answer: C



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7. Herbivorous animals feed on _____

A. animals

B. carnivores

C. insects

D. plants

Answer: D



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8. Omnivorous 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

A. villi

B. pancreas

C. pharynx

D. intestine

Answer: C



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11. ___ helps in fat digestion.

A. Bile

B. Saliva

C. Pancreatic juice

D. HCl

Answer: A



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12. Protein digestion starts in _____

A. stomach

B. mouth

C. small intestine

D. oesophagus

Answer: A



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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



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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?



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



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



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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.



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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?



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9. Give the functions of the Salivary glands.



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10. Give the functions of the Stomach .



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11. What is the function of pancreas ?



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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.



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2. Fungus is a saprophyte. Justify the statement.



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



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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 → Absorption → Assimilation
→ Digestion → Egestion



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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 of 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?



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