

BIOLOGY

BOOKS - PEARSON IIT JEE

FOUNDATION

ENVIRONMENT- AN ETERNAL GIFT TO MANKIND

Example

1. Justify whether an egg is living or non-living.



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2. The hands of a clock show movement, but it is not a living thing. How do you explain this?



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3. Differentiate between herbivores and carnivores.



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4. Justify that if there is no existence of plants, no animals can survive on earth.



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5. Mention the features of camel which make it adapted to desert habitat.



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6. Justify whether an egg is living or non-living.





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7. The hands of a clock show movement, but it is not a living thing. How do you explain this?



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8. Differentiate between herbivores and carnivores.



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9. Justify that if there is no existence of plants, no animals can survive on earth.



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10. Mention the features of camel which make it adapted to desert habitat.



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Very Short Answer Type Questions

1. Plants synthesize food by the process of

.....



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2. A chick..... From the egg.



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3. All living things are made up of.....



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4. The movement of animals from one place to another is known as



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5. Plants manufacture food in the form of.....



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6. is the process in which energy is released in living organisms.



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7. Reproduction is the process in which Are produced.



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8. Green plants show..... Mode of nutrition.



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9. The process of removal of waste substance from the bodies of living organisms is known as.....



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10. Excretory substances of animals contain..... wastes.



Watch Video Solution

11. Plants possess green pigment called _____



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12. The process of breathing in oxygen by living organisms is called.....



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13. Identify the multicellular organism among the following:

A. Hydra

B. Amoeba

C. Paramecium

D. Yeast

Answer: a



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14. Identify the animal which remains attached to hard surface and cannot move from one place to the other.

A. Snail

B. Hydra

C. Sea anemone

D. Euglema

Answer: c



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15. Identify the plant part which traps sunlight to a large extent?

A. Root

B. Stem

C. Leaf

D. Flower

Answer: c



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16. Which gas is released during photosynthesis?

A. Oxygen

B. Carbon dioxide

C. Nitrogen

D. Water vapour

Answer: a



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17. Identify an omnivores among the following.

A. Lion

B. Elephant

C. Snake

D. Crow

Answer: d



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18. Identify a herbivorous bird among the the following:

A. Eagle

B. Sparrow

C. Peacock

D. Parrot.

Answer: d



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19. Are known as decomposers.



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20. The place where the biotic community lives is called.....



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21. The ability of an animal to have a concealed appearance so that it is not seen by its predator is called.....



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22. Thick and waxy coating on plant parts reduces the



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23. A frog has..... Feet.



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24.colour of predating animals is an adaptation in dry grasslands.



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25. Chewing the cud is the characteristic feature of



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26.beak is useful in eating variety of food items.



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27. Butterflies have like mouth parts.



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28. Which of the following organisms is indirectly dependent on plants.

A. Rabbit

B. Butterfly

C. Cow

D. Bear

Answer: d



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29. Which of the following pairs shows prey-predator relationship?

A. Rabbit-Carrot

B. Butterfly-Flower

C. Owl-snake

D. Hen-chick

Answer: c



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30. Which among the following is an artificial ecosystem?

A. Garden

B. Forest

C. Pond

D. Lake

Answer: d



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31. The series of organisms taking part at various biotic levels is called.

A. Food chain

B. Food web

C. Ecosystem

D. Biome

Answer: a



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32. Canopy type of arrangement of trees is found in which type of habitat?

A. Desert

B. Tundra

C. Rain forests

D. Grasslands.

Answer: c



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33. The presence of leaves reduced to needle-like structures is the characteristics feature of which habitat?

A. Mountains

B. Deserts

C. Tundras

D. Rain forests.

Answer: a



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34. What is the characteristic feature of perying animals in grasslands?

- A. Eyes in front side
- B. Eyes on the sides of head
- C. Short teeth
- D. Long claws.

Answer: b



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35. Identify the adaptation of plants in desert habitat.

A. Waxy coating on leaves

B. Cone shaped trees.

C. Sloping branches

D. Thick and fleshy stems

Answer: d



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36. Which animal has long ears?

A. Polar bear

B. Kangaroo

C. Camel

D. Deer

Answer: d



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Short Answer Type Questions

1. How does growth in plants differ from animals?



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2. Justify whether if seed is living or non-living.



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3. How do you categorize leather and bone as a living or non-living thing? Give appropriate reason in support of your answer.



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4. Compare both plants and animals regarding their response to stimuli.



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5. Distinguish between autotrophic and heterotrophic mode of nutrition.



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6. Why do animals show locomotion?





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7. Humans come under omnivores. Give reason.



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8. Explain the method of nutrition in tapeworm.



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9. What is the role of scavengers in cleaning environment?



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10. Give reason why plants are called autotrophs.



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11. Give reason why unicellular organisms are also known as microorganisms.



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12. Give reasons why leeches are considered as parasites.



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13. State the reason why rabbit is considered as a herbivore and tiger as a carnivores.



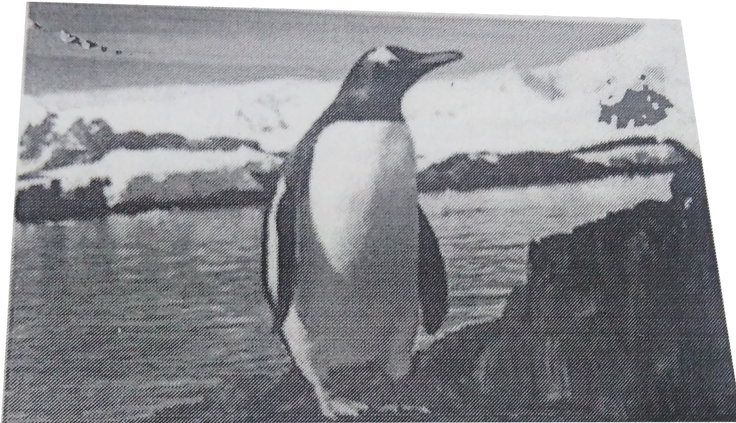
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14. How do plants in a pond get carbon dioxide for photosynthesis? Explain.



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15. Explain aquarium as an ecosystem.



16.

Answer the following questions based on the above figure.

A. Identify the animal and its habitat.

B. Mention the characteristic features for adaptation in the habitat.

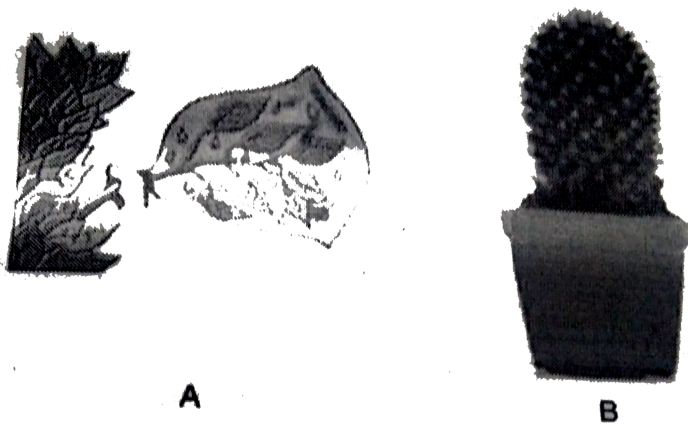
C. Mention any other animal which lives in the same habitat.

D. The trees in these habitats are usually cone shaped. Give reason.

Answer: N/A



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17.

Answer the following questions based on the above figure.

- a) Identify the plant B and predict the habitat.
- b) What does the activity shown in the above diagram (refer figure A) indicate?
- c) List out the adaptation of the plant B for the habitat.



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18. Mention the features of fish for adaptation to aquatic ecosystem.



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19. Both the deer and the lion depend on plants for food. Give reason.



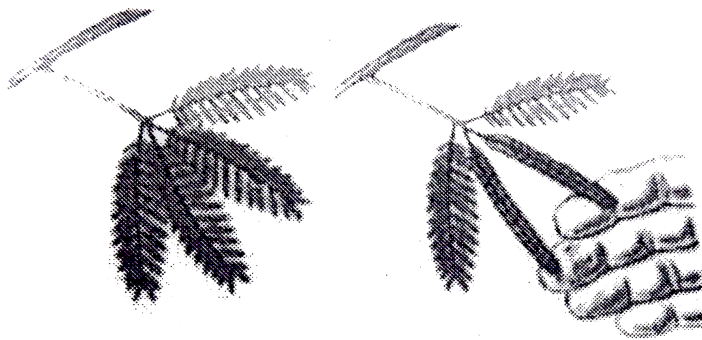
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20. Both cat and tiger are carnivores. What is the different between the modes of feeding?



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Concept Application



1.

Answer the following questions based on the

given figure.

- a) What does the above diagram indicate?
- b) Mention the terms associated with the change.
- c) Define the terms mentioned in b)
- d) Explain the phenomenon in brief?



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2. Can you imagine the world without bacteria?



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3. Through dolphin and whales are aquatic mammals, they come to up to the surface of water very often. Give reason.



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4. The animals in rain forests are habituated to eat a specific kind of food which is not eaten by any other animal. Give reason.



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5. The leaves of the trees in the lower levels in tropical rainforests are broad. Give reason.



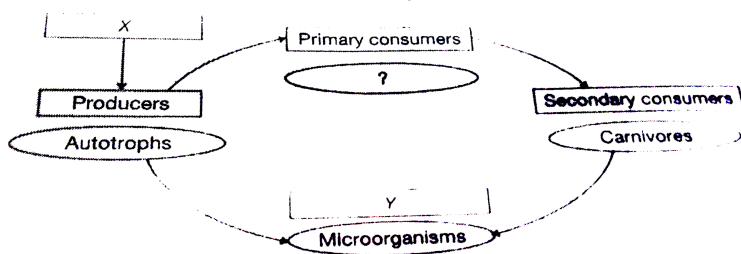
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6. Why do certain animals have a winter sleep?



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7. From the below given figure identify X and Y in the given food chain.



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8.

Answer the following questions based on the given figure.

What does the above diagram indicate?



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9.

Answer the following questions based on the given figure.

Mention the terms associated with the change.



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Define the terms mentioned in



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Answer the following questions based on the given figure.

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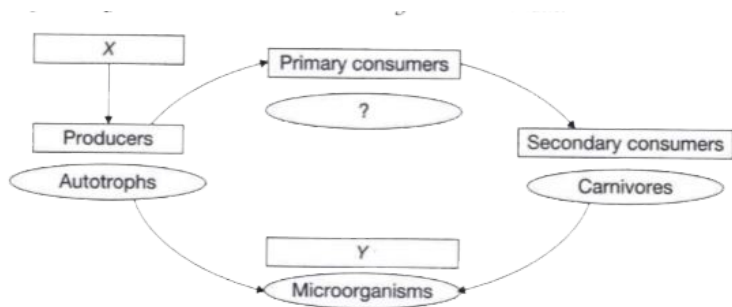
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Watch Video Solution

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Assessment Test

1. Plants grown in shade tend to bend away from sunlight.



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2. Plants stop growing after a certain period of time.



Watch Video Solution

3. Animals show quick response to stimulus.



Watch Video Solution

4. Plants require oxygen for photosynthesis.



Watch Video Solution

5. Plants show uniform growth.



Watch Video Solution

6. Man is a herbivore.



Watch Video Solution

7. Pick out the odd one:- Amoeba, Paramecium, Tapeworm, Euglena



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8. Stomata, lungs, gills, spiracles.



Watch Video Solution

9. Grasshoper, insect butterfly, mosquito.



Watch Video Solution

10. Lion, elephant, cheetah, wolf.



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Column I	Column II
Animal	Young one
(A) Deer	(a) Tadpole
(B) Goat	(b) Joey
(C) Frog	(c) Fawn
(D) Horse	(d) Calf
(E) Kangaroo	(e) Kid
(F) Giraffe	(f) Colt

11.



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Column I	Column II
(A) Herbivores	(a) Eagles
(B) Carnivores	(b) Tapeworm
(C) Omnivores	(c) Jackals and hyenas
(D) Parasites	(d) Human beings
(E) Scavengers	(e) Giraffe

12.



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13. Compare the mode of reproduction in hen and cow.



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14. Define the following.

- a) Respiration.
- b) Photosynthesis.
- c) Stimulus.
- d) Excretion.
- e) Locomotion.



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15. Distinguish between scavengers and decomposers.





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16. Food chain: Producer:: Herbivore:.....



[Watch Video Solution](#)

17. Vulture:..... ::Cheetah: Tertiary
consumer



[Watch Video Solution](#)

18. Primary consumer: Rabbit :::Grass



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19. Define habitat and adaptation.



Watch Video Solution

20. Tiger feeds on other animals. Does it mean that plants are not needed for the survival of tigers?



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21. Define the following. It bgt a) Ecosystem

b) Food chain

c) Food web

d) Ecology



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22. Name the ecological adaptation shown by desert plants (xerophytes).





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23. Identify the missing organism in the given food chain (primary consumer).



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24. Match the Column I with Column II

Column I	Column II
Organism	Teeth
(A) Horse	(a) Several small and sharp teeth
(B) Squirrel	(b) All variety of teeth
(C) Shark	(c) Wide and blunt teeth
(D) Cat	(d) A pair of sharp incisors





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Test Your Concepts Very Short Answer Type Questions Fill In The Blanks

1. Plants synthesize food by the process of
.....



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2. A chick _____ from the egg.



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3. All living things are made up of_____



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4. The movement of animals from one place to another is known as



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5. Plants manufacture food in the form of



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6. _____ is the process in which energy is released in living organisms.



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7. Reproduction is the process in which _____ are produced.



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8. Green plants show..... Mode of nutrition.



Watch Video Solution

9. The process of removal of waste substances from the bodies of living organisms is known as _____



Watch Video Solution

10. Excretory substances of animals contain _____ wastes.



Watch Video Solution

11. Plants possess green pigment called _____



Watch Video Solution

12. The process of breathing in oxygen by living organisms is called _____



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13. Are known as decomposers.



Watch Video Solution

14. The place where the biotic community lives is called_____



Watch Video Solution

15. The ability of an animal to have a concealed appearance so that it is not seen by its predator is called.....



Watch Video Solution

16. Thick and waxy coating on plant parts reduces the



Watch Video Solution

17. A frog has ___ feet.



Watch Video Solution

18.colour of predating animals is an adaptation in dry grasslands.





Watch Video Solution

19. Chewing the cud is the characteristic feature of



Watch Video Solution

20.beak is useful in eating variety of food items.



Watch Video Solution

21. Butterflies have _____ like mouth parts.



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Test Your Concepts Very Short Answer Type Questions Select The Correct Alternative From The Given Options

1. Identify the multicellular organism among the following:

A. Hydra

B. Amoeba

C. Paramecium

D. Yeast

Answer: A



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2. Identify the animal which remains attached to hard surface and cannot move from one place to the other.

A. Snail

B. Hydra

C. Sea anemone

D. Euglena

Answer: C



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3. Identify the plant part which traps sunlight to a large extent?

A. Root

B. Stem

C. Leaf

D. Flower

Answer: C



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4. Which gas is released during photosynthesis?

A. Oxygen

B. Carbon dioxide

C. Nitrogen

D. Water vapour

Answer: A



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5. Identify an omnivore among the following.

A. Lion

B. Elephant

C. Snake

D. Crow

Answer: D



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6. Identify a herbivorous bird among the following.

A. Eagle

B. Sparrow

C. Peacock

D. Parrot

Answer: D



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7. Which of the following organism is indirectly dependent on plants?

A. Rabbit

B. Butterfly

C. Cow

D. Bear

Answer: D



Watch Video Solution

8. Which of the following pairs shows prey-predator relationship?

A. Rabbit-Carrot

B. Butterfly-Flower

C. Owl-snake

D. Hen-chick

Answer: C



Watch Video Solution

9. Which among the following is an artificial ecosystem?

A. Garden

B. Forest

C. Pond

D. Lake

Answer: D



Watch Video Solution

10. The series of organisms taking part at various biotic levels is called

A. Food chain

B. Food web

C. Ecosystem

D. Biome

Answer: A



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11. Canopy type of arrangement of trees is found in which type of habitat?

A. Desert

B. Tundra

C. Rain forests

D. Grasslands

Answer: C



Watch Video Solution

12. The presence of leaves reduced to needle-like structures is the characteristic feature of which habitat?

A. Mountains

B. Deserts

C. Tundras

D. Rain forests

Answer: A



Watch Video Solution

13. What is the characteristic feature of perying animals in grasslands?

A. Eyes in front side

B. Eyes on the sides of head

C. Sharp teeth

D. Long claws

Answer: B



Watch Video Solution

14. Identify the adaptation of plants in desert habitat.

A. Waxy coating on leaves

B. Cone shaped trees

C. Sloping branches

D. Thick and fleshy stems

Answer: D



Watch Video Solution

15. Which animal has long ears?

A. Polar bear

B. Kangaroo

C. Camel

D. Deer

Answer: D



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Test Your Concepts Short Answer Type Questions

1. How does growth in plants differ from animals?



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2. Justify whether if seed is living or non-living.



Watch Video Solution

3. How do you categorize leather and bone as a living or non-living thing? Give appropriate reason in support of your answer.



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4. Compare both plants and animals regarding their response to stimuli.



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5. Distinguish between autotrophic and heterotrophic mode of nutrition.



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6. Why do animals show locomotion?



Watch Video Solution

7. Humans come under omnivores. Give reason.



Watch Video Solution

8. Explain the method of nutrition in tapeworm.



Watch Video Solution

9. What is the role of scavengers in cleaning environment?



Watch Video Solution

10. How do plants in a pond get carbon dioxide for photosynthesis? Explain.



Watch Video Solution

11. Explain aquarium as an ecosystem.



[Watch Video Solution](#)



12.

Answer the following questions based on the above figure.

Identify the animal and its habitat.



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13.

Answer the following questions based on the above figure.

Mention the characteristic features for adaptation in the habitat.



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14.

Answer the following questions based on the above figure.

Mention any other animal which lives in the same habitat.



View Text Solution



A



B

15.

Answer the following questions based on the above figure.

Identify the plant B and predict the habitat.



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A



B

16.

Answer the following questions based on the above figure.

What does the activity shown in the above diagram (refer Figure A) indicate?



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A



B

17.

Answer the following questions based on the above figure.

List out the adaptations of the plant B for the habitat.



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18. Mention the features of fish for adaptation to aquatic ecosystem.



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19. Both cat and tiger are carnivores. What is the difference between the modes of feeding?



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**Test Your Concepts Short Answer Type Questions
Give Scientific Reasons**

1. Give reason why plants are called autotrophs.



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2. Give reason why unicellular organisms are also known as microorganisms.



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3. Give reason why leeches are considered as parasites.



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4. State the reason why rabbit is considered as a herbivore and tiger as a carnivore.



Watch Video Solution

5. Both the deer and the lion depend on plants for food. Give reason.



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Assessment Test Test 1 State Whether True Or False Rewrite The False Statements

1. Plants grown in shade tend to bend away from sunlight



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2. Plants stop growing after a certain period of time.



Watch Video Solution

3. Animals show quick response to stimulus.



Watch Video Solution

4. Plants require oxygen for photosynthesis.



Watch Video Solution

5. Plants show uniform growth.



Watch Video Solution

6. Man is a herbivore.



Watch Video Solution

Assessment Test Test 1 Pick The Odd One Out

1. Amoeba, Paramecium, tapeworm, Euglena.



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2. Wood, car, clock, chair



Watch Video Solution

3. Stomata, lungs, gills, spiracles.



Watch Video Solution

4. Grasshopper, insect, butterfly, mosquito



Watch Video Solution

5. Lion, elephant, cheetah, wolf.



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Assessment Test Test 1

1. Match Column I with Column II

Column I	Column II
Animal	Young one
(A) Deer	(a) Tadpole
(B) Goat	(b) Joey
(C) Frog	(c) Fawn
(D) Horse	(d) Calf
(E) Kangaroo	(e) Kid
(F) Giraffe	(f) Colt



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2. Match Column I with Column II

Column I	Column II
(A) Herbivores	(a) Eagles
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(C) Omnivores	(c) Jackals and hyenas
(D) Parasites	(d) Human beings
(E) Scavengers	(e) Giraffe



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3. Compare the mode of reproduction in hen and COW.



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4. Define the following.

Respiration



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5. Define the following.

Photosynthesis



Watch Video Solution

6. Define the following.

Stimulus



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7. Define the following.

Excretion



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8. Define the following.

Locomotion



Watch Video Solution

9. Distinguish between scavengers and decomposers.



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10. Define habitat and adaptation.



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12. Define the following.

Ecosystem



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13. Define the following.

Food chain



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14. Define the following.

Food web



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15. Define the following.

Ecology



Watch Video Solution

16. Name the ecological adaptations shown by desert plants (xerophytes).



Watch Video Solution

17. Identify the missing organism in the given food chain (primary consumer).



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18. Match Column I with Column II.

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(B) Squirrel	(b) All variety of teeth
(C) Shark	(c) Wide and blunt teeth
(D) Cat	(d) A pair of sharp incisors



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Assessment Test Test 1 Find The Co Related Terms

1. Food chain : Producer :: Herbivore : _____



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2. Vulture : _____ :: Cheetah : Tertiary consumer



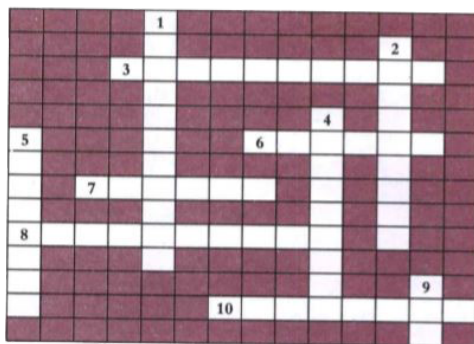
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3. Primary consumer : Rabbit :: _____ : Grass



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Crossword



Across

3. Adjustment to habitat
6. Plant which lives in desert
7. Gas released during photosynthesis
8. Organisms which feed on dead animals
10. External agent to cause change

Down

1. Plants living in water
2. Animals active during night
4. Interaction between biotic and abiotic community
5. Period between birth and death
9. Primary source of energy



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