



BIOLOGY

BOOKS - BETOPPERS

OUR ENVIRONMENT

Formative Worksheet

1. Statement-I: It is due to the rotation of the Earth that day and nights are formed.

Statement-II: The axis of the Earth is tilted to its orbit at an angle of $23\frac{1}{2}$.

- A. Statement-I is true, Statement-II is false
- B. Statement-I is false, Statement -II is true
- C. Both statements are true
- D. Both statements are false

Answer:



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2. Assertion (A): The earth appears stationary.

Reason (R): It is because all the things around us on the surface of Earth move at the same speed

A. A is correct, R is the correct explanation of A

B. A is correct, R is the not the correct explanation of A

C. A is correct, R is incorrect

D. A is incorrect, R is correct

Answer:



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3. The closest planet to the sun in solar system is

A. Mercury

B. Venus

C. Earth

D. Mars

Answer:



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4. The largest planet of solar system is

A. Earth

B. Jupiter

C. Saturn

D. Uranus

Answer:



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5. Statement-I: Life exists on the Mercury

Statement-II: Life exist on the Earth

A. Stateinent-I is true, Statement -II is false

B. Statement-I is false, Statement-II is true

C. Both statements are true

D. Both statements are false

Answer:



6. Statement-I: The temperature on the surface of planet Earth is neither too low nor too high.

Statement-II: Atmosphere is not present on Earth

- A. Statement-I is true, Statement-II is false
- B. Statement-I is false, Statement-II is true
- C. Both statements are true
- D. Both statements are false

Answer:



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7. The temperature at most of the places on the Earth varies between

- A. - 10°C and 100°C
- B. - 20°C and 48°C
- C. 50°C and 100°C
- D. - 200°C and 48°C

Answer:



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8. The presence of atmosphere on earth helps
in

A. absorption of harmful radiations coming
from the sun

B. formation of clouds and rain

C. killing people

D. occurrence of earth quakes

Answer:



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9. The distance of the Earth from the Sun is

A. 149,600,000,00 km

B. 149,600,000 km

C. 149,600,0 km

D. 119,600 km

Answer:



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10. About _____ per cent of earth's surface is hydrosphere.

A. 40

B. 50

C. 60

D. 75

Answer:



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11. Most of the weather formation takes place in the

A. Troposphere

B. Stratosphere

C. Ionosphere

D. Lithosphere

Answer:



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12. The common element present in inner core and outer core of earth is

A. Iron

B. Nickel

C. Sulphur

D. Phosphorus

Answer:



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13. The percentage of nitrogen present in earth's atmosphere is

A. 0.03% to 0.04%

B. 0.009

C. 0.21

D. 0.78

Answer:



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14. Match the following with respective composition of different gases in earth's atmosphere.

Column-I

- 1) Nitrogen
- 2) Oxygen
- 3) Carbon dioxide
- 4) Water vapour

Column-II

- p) 4%
- q) 0.03%
- r) 21%
- s) 78%

A. 1234/srpq

B. 1234/qspr

C. 1234/prsq

D. 1234/srqp

Answer:



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15. Assertion (A): Mountaineers carry oxygen cylinders with them while climbing higher altitudes.

Reason (R): In the upper layers of air, the percentage of oxygen rises rapidly.

A. A is correct, R is the correct explanation of A

B. A is correct, R is not the correct explanation of A

C. A is correct, R is incorrect

D. A is incorrect, R is correct

Answer:



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16. Assertion (A): Ozone present in earth's atmosphere proves to be useful.

Reason (R): Ozone prevents the harmful ultraviolet rays from reaching the Earth.

A. A is correct, R is the correct explanation of A

B. A is correct, R is not the correct explanation of A

C. A is correct, R is incorrect

D. A is incorrect, R is correct

Answer:



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17. Which of the following components of a pond ecosystem is biotic in nature?

A. Detritus

B. Oxygen

C. Algae

D. Water

Answer:



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18. Which of the following factors are biotic components of the ecosystem?

A. Soils

B. Fungi

C. Rocks

D. Minerals

Answer:



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19. _____ and _____ are the abiotic factors of the ecosystem. The information in which row completes the given statement?

A. i- Sunlight ii- Consumers

B. i- Wind ii- Decomposers

C. i- Water ii-Soil

D. i-Producers ii-Scavengers

Answer:



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20. A constant flow of solar energy to various trophic levels is supplied by the

A. Carnivores

B. Omnivores

C. Herbivores

D. Producers

Answer:



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21. Consumers are organisms that are dependent on other organisms for food. Which of the following organisms is not a consumer?

A. Cow

B. Lion

C. Plant

D. Rabbit

Answer:



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22. The following food chain exists in an enclosed forest region.

Plants → Rabbit → Fox

Which of these is a consequence of the excessive hunting of rabbit population by humans?

- A. The plant population remains unaffected
- B. The food chain remains unaffected
- C. The fox population decreases
- D. The fox population increases

Answer:



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23. Phytoplanktons → Zooplanktons →

Small fishes → Large fishes → Killer whales

The population of small fishes will increase with

A. An increase in the population of
phytoplanktons

B. A decrease in the population of
zooplanktons

C. A decrease in the population of killer
whales

D. An increase in the population of large fishes

Answer:



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24. In the given food chain, _____ is the producer and _____ is the decomposer.



The information in which row completes the given statement?

A. i-Plant ii- Mouse

B. i-Eagle ii-Mouse

C. i-Plant ii-Mushroom

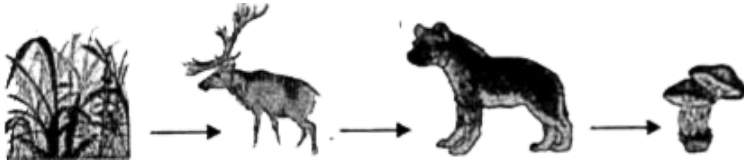
D. i-Eagle ii- Mushroom

Answer:



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25.



In the given food chain, the decomposer is

A. Mushroom

B. Reindeer

C. Hyena

D. Plant

Answer:



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26. The animals shown in the given figure form a part of a food chain



What is the order in which energy flows in the food chain formed by the given organisms?

- A. Shrew to Grasshopper to Plant to Hawk
- B. Plant to Grasshopper to Shrew to Hawk
- C. Shrew to Plant to Hawk to Grasshopper
- D. Plant to Shrew to Hawk to Grasshopper

Answer:



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27. The give food chain exists between plants, insects, lizard, snake, and hawk in a forest.



Suppose an accidental spread of a chemical in the forest leads to death of all the insects. Based on the given food chain, the death of insects will result in the increase in the population of the

A. Plant

B. Lizard

C. Snake

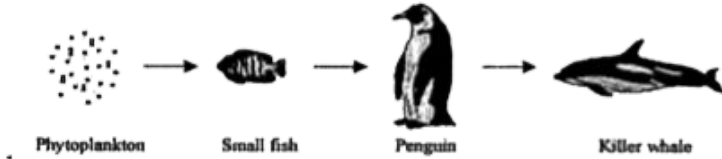
D. Hawk

Answer:



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28. The illustration represents a marine food chain .



If the penguin population decreases, then which of the following observation will be most probablu true?

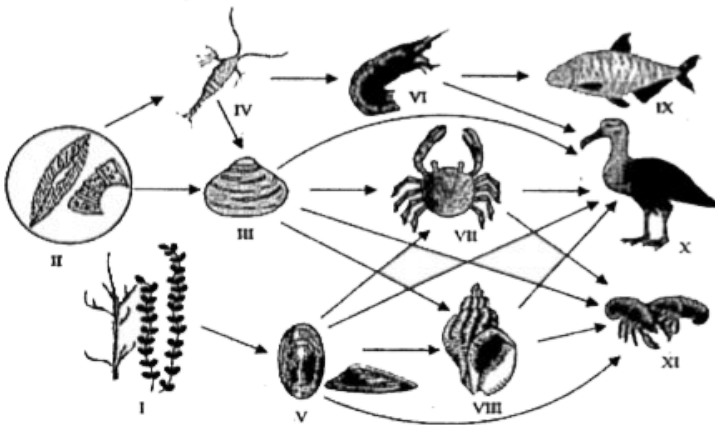
- A. Increase in killer whale population
- B. Decrease in phythoplankton population
- C. Increase in fish and the killer whale population
- D. Decrease in the fish and the phythoplankton population

Answer:



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29. The illustration represents a ocean food web.



Which two labels represent the producers in the given food web?

A. I and II

B. IV and V

C. VII and VIII

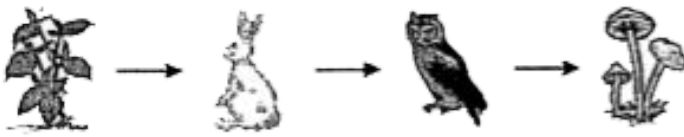
D. X and XI

Answer:



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30. The given illustration represents a food chain operating in a forest.



Which organism is the decomposer in the given food chain?

A. Rabbit

B. Fungi

C. Plant

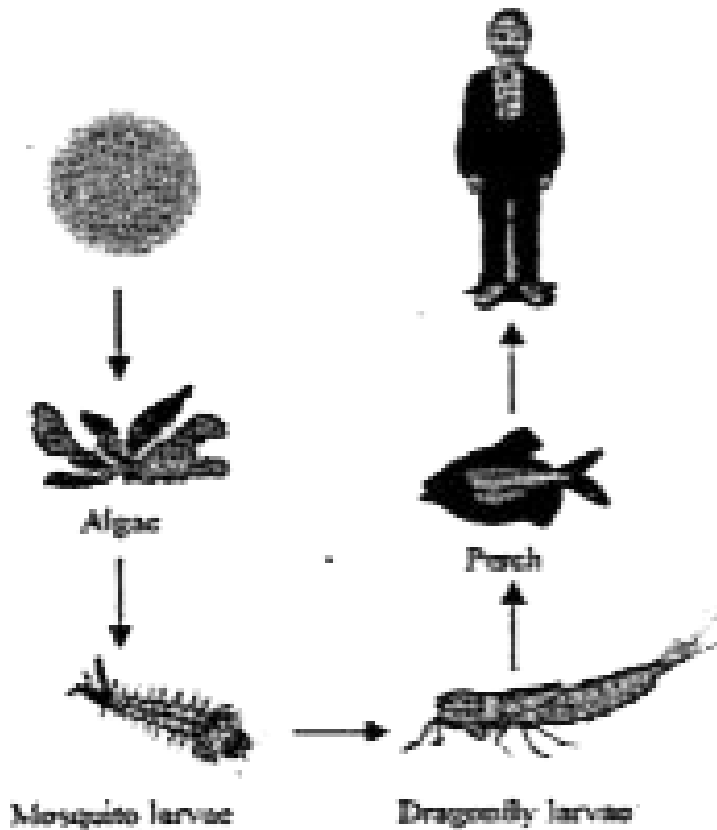
D. Owl

Answer:



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31. The illustration represents a food chain.



If the population of the dragonfly larva increases, then which of the following observations will be most probably true?

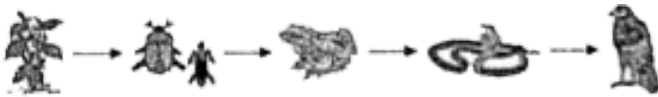
- A. Increase in the perch population
- B. Decrease in the algae population
- C. Decrease in the human population
- D. Increase in the mosquito larva population

Answer:



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32. In a forest, the illustrated food chain exists between the plants, insects, frog, snake, and the hawk populations:



If the frog population decreases because of some natural catastrophe, then which of the following recorded observations will be most probably true?

- A. Decrease in the hawk population
- B. Decrease in the insect population
- C. Increase in the snake population

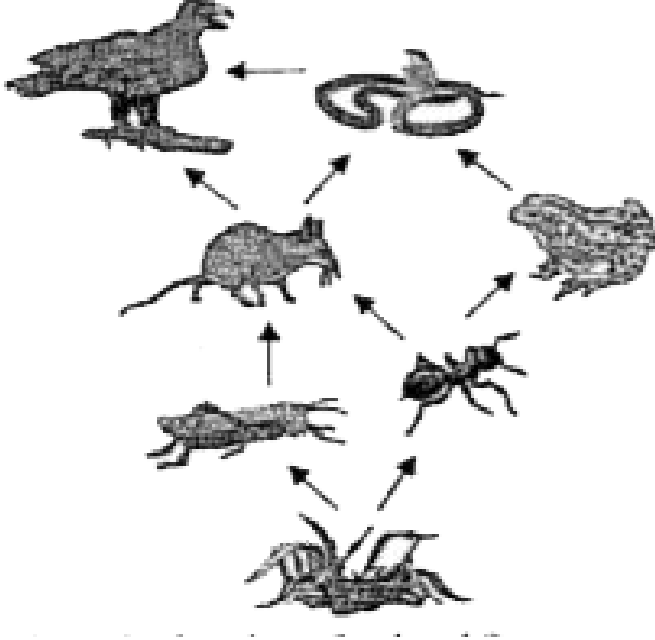
D. Increase in the plant population

Answer:



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33. The illustration represents a food web operating in a forest.



Which organism is the producer in the given food web?

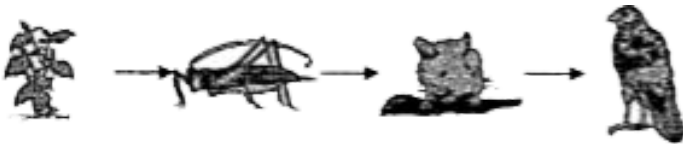
- A. Hawk
- B. Grass
- C. Frog
- D. Rat

Answer:



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34. The illustrated food chain operates in a forest.



If most of the rat population died because of a disease, then which of the following observations would be most probably true?

A. The plant population will increase.

B. The grasshopper population will increase.

C. Both plant and hawk population will increase.

D. Both grasshopper and hawk population will increase.

Answer:



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35. The illustration represents a food chain.



Which organism is a decomposer in the given food chain?

A. Fox

B. Plant

C. Rabbit

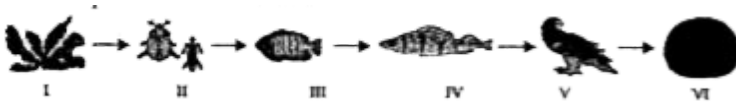
D. Mushroom

Answer:



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36. The illustration represents a food chain.



The consumers in the given food chain are labeled as

A. I, II, III, and IV

B. II, III, IV, and V

C. IV, V, and VI

D. I, III, and VI

Answer:



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37. The illustration represents a food chain operating in a forest.



Which label represents the decomposer in the given food chain?

A. I

B. II

C. IV

D. V

Answer:



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38. The combination of food chains form a food web. Which organism is the secondary consumer in the given options?

A. Mouse

B. Grass

C. Hawk

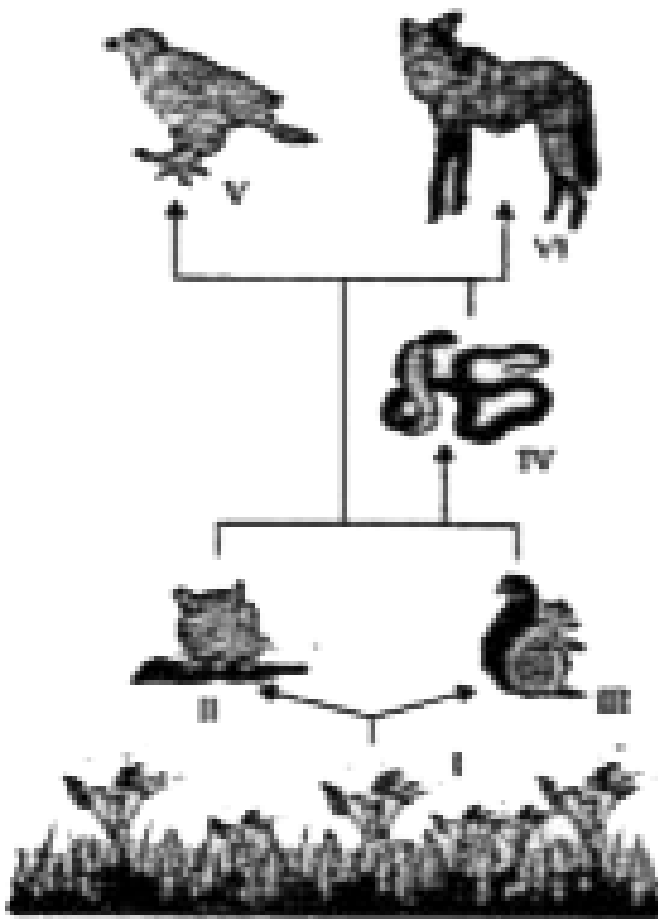
D. Snake

Answer:



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39. The illustration represents a food web operating in grassland.



Which two labels represent the primary consumers in the given food?

A. I and II

B. II and III

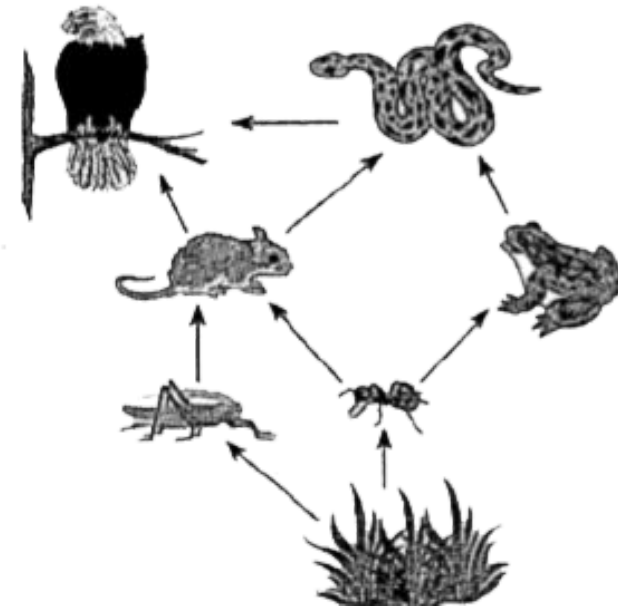
C. IV and V

D. V and VI

Answer:



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40.

In the given food web, if there is an increase in the snake population, then there would be a decrease in the population of

A. Grasshoppers

B. Eagles

C. Ants

D. Rats

Answer:



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41. The given food chain exists in a particular forest.



The competition for food will increase in the lion community by the introduction of

A. Plants

B. Eagles

C. Squirrels

D. Leopards

Answer:



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42. Which of the following figures depicts the flow of energy in a terrestrial food chain?

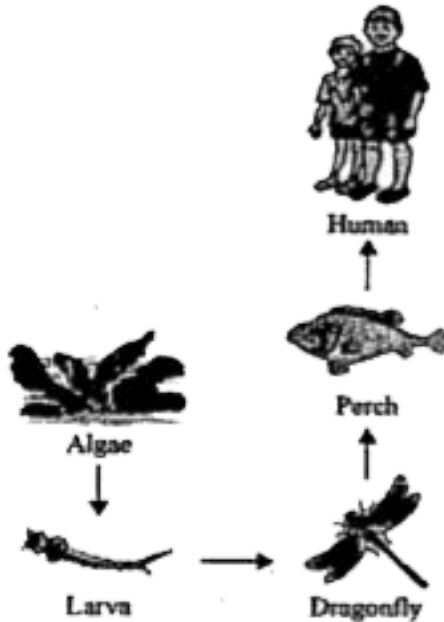


Answer:



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43. The given figure shows an aquatic food chain.



Who is the producer in the given food chain?

A. Larva

B. Algae

C. Perch

D. Dragonfly

Answer:



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44. Which organism is not a consumer in the given pond food chain?



(A) Bear



(B) Frog



(C) Crane



(D) Weed

A. Bear

B. Frog

C. Crane

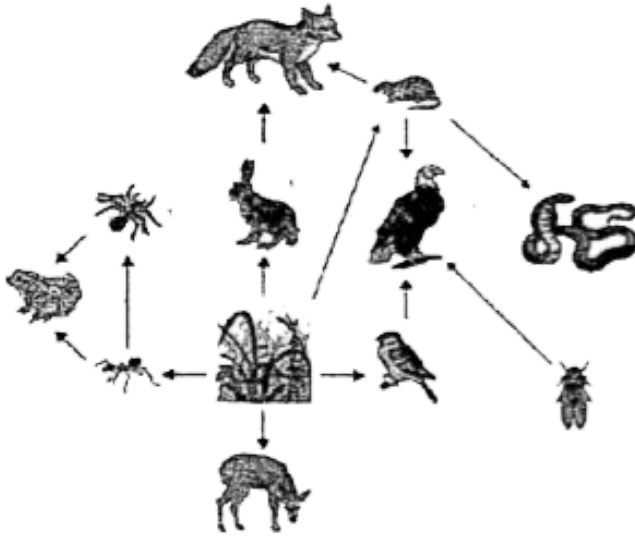
D. Weed

Answer:



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45. The given figure represents a food web.



A decrease in the population of rabbits will greatly affect the population of

A. Hyenas

B. Snakes

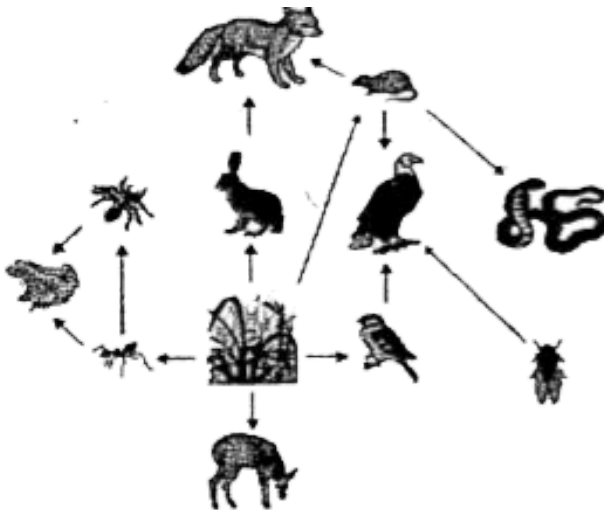
C. Hawks

D. Frogs

Answer:

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46. The given figure shows a food web in a grassland ecosystem.



In the given food web, the sources of energy for hawks are

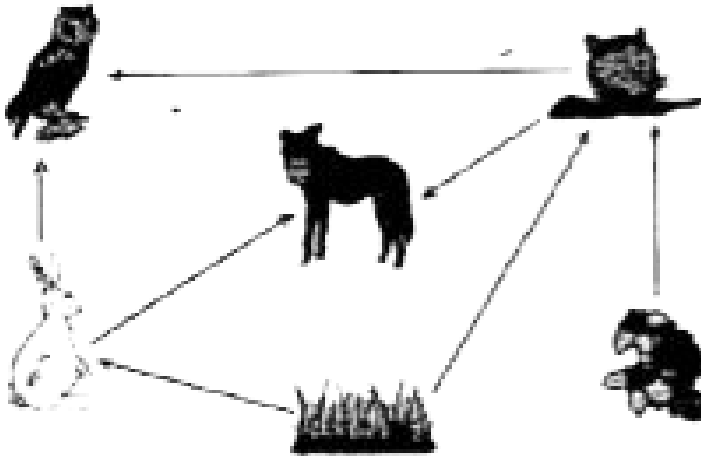
- A. Mice and sparrows
- B. Sparrows and deer
- C. Rabbits and mice
- D. Deer and rabbits

Answer:



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47. The given figure shows a food web in a particular forest.



The introduction of deer population in the given forest will result in

A. A decrease in fox population

B. An increase in rat population

C. An increase in owl population

D. A decrease in rabbit population

Answer:



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48. The given figure shows a food chain.

Plant → Grasshopper → Mouse → Snake
→ Eagle

In the given food chain, a decrease in mice

population will cause an increase in the population of

A. Grasshopper

B. Snakes

C. Plants

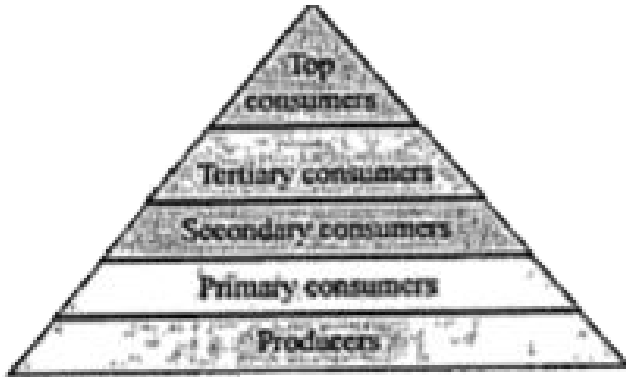
D. Eagles

Answer:



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49. The given figure represents the energy pyramid of a food chain.



Which of the following changes will not be noticed if all the secondary consumers in the given food chain die?

A. Decrease in the population of the tertiary consumers

B. Increase in the population of the primary consumers

C. Decrease in the population of the top consumers

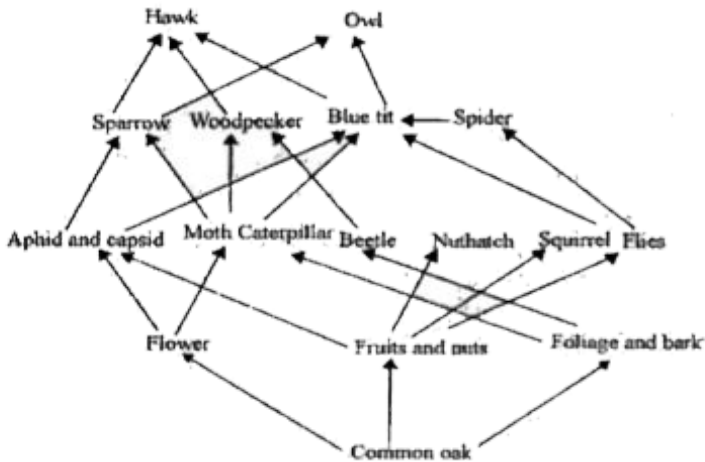
D. Increase in population of the producers

Answer:



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50. Which of the following organisms is a source of energy for the sparrow?



A. Squirrel

B. Spider

C. Aphid

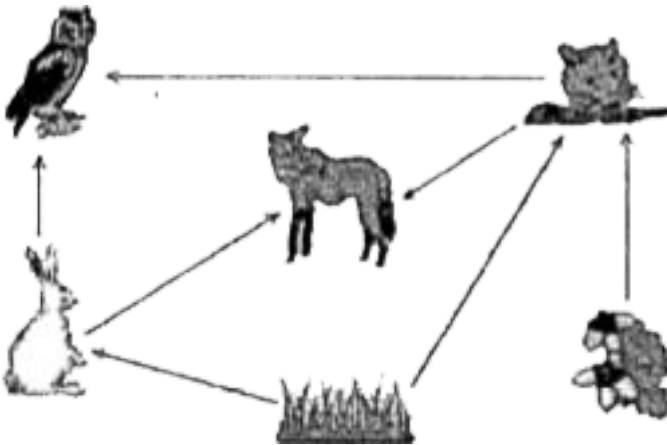
D. Oak

Answer:



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51. The given figure shows a food web.



The transfer of energy is the least between

A. Owl and fox

B. Rabbit and fox

C. Mouse and owl

D. Rabbit and mouse

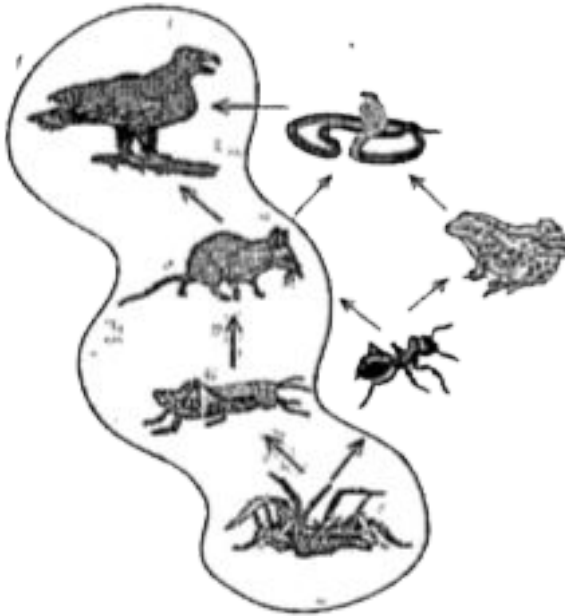
Answer:



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52. If 200 J of energy is present at the plant level, then the amount of energy received by

the eagle will be



A. 200 J

B. 20 J

C. 2 J

D. 0.2 J

Answer:



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53. Which of the following factors affect the biotic components of environment?

A. Temperature

B. Light

C. Soil

D. All

Answer:



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54. Polar bears and penguins are found in

- A. Hot places
- B. cold places
- C. Warm places
- D. Deserts

Answer:



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55. Pine trees are found in

- A. Hot places
- B. cold places
- C. Warm places
- D. Deserts

Answer:



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56. The camel copes with external high temperature by raising its own body temperature upto

A. 42 °C

B. 84°C

C. 126 °C

D. 252 °C

Answer:



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57. Which of the following plants are found in deserts?

A. Opuntia

B. Cacti

C. Rose

D. Tamarind

Answer:



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58. Which of the following do not like light?

A. Earthworms

B. Centipedes

C. Millipedes

D. Housefly

Answer:



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59. Water is the life- sustaining natural resource covers _____ of the earth's surface.

A. $\frac{1}{2}$

B. $\frac{3}{4}$

C. $\frac{4}{5}$

D. $\frac{1}{3}$

Answer:



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60. Assertion (A): The leaves of hydrilla are long and thin.

Reason (R): The strong water currents are not able to tear them apart.

A. A is correct and R is the correct explanation of A.

B. A is correct and R is not the correct explanation of

C. A is correct and R is wrong.

D. A is wrong and R is correct.

Answer:



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61. Which of the following fruit has wings?

A. Dandelion

B. Maple

C. Mango

D. Apple

Answer:



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62. Statement - I: Air, when strong in the form of air currents, is called wind.

Statement - II: Wind plays an important role in the dispersal of seeds and fruits.

A. Statement - I is true, Statement - II is false

B. Statement - I is false, Statement - II is true

C. Both statements are true

D. Both statements are false

Answer:



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63. Animals depend upon plants for

A. Food

B. Oxygen

C. Shelter

D. All

Answer:



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64. Match the following

Column-I

1. Cereals
2. Pulses
3. Vegetables
4. Fruits

Column-II

- p. Mango, apple, banana, grapes, pine-apple, orange
- q. Onion, potato, spinach, brinjal, radish, carrot, beet root
- r. Moong, gram, beans, arhar
- s. Rice, wheat, maize, barley

A. 1234/pqrs

B. 1234/spqr

C. 1234/srqp

D. 1234/psrq

Answer:



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65. Match the following

Column-I

1. Penicillin
2. Quinine
3. Timber
4. Paper

Column-II

- p. Bark of *Cinchona*
- q. Teak
- r. bamboos and eucalyptus
- s. Fungus *Penicillium*

A. 1234/pqrs

B. 1234/spqr

C. 1234/srqp

D. 1234/psrq

Answer:



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66. An undesirable change in the natural quality of the environment, that may adversely affect man and other living beings is called

A. Global warming

B. Pollution

C. Green house effect

D. None

Answer:



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67. Which of the following are non biodegradable pollutants?

A. Manure

B. Garbage

C. Leaves

D. Plastics

Answer:



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68. Which of the following are air pollutants?

A. Smoke

B. Dust

C. Sulphur dioxide

D. All

Answer:



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69. Which of the following leads to air pollution?

A. Smoke from vehicles

B. Smoke from factories and thermal power stations

C. Deforestation

D. All

Answer:



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70. Which of the following controls air pollution?

A. Smoke from vehicles

B. Smoke from factories and thermal power
stations

C. Deforestation

D. Growing trees

Answer:



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71. Discharge of sewage and detergents into lakes and rivers leads to

- A. Air pollution
- B. Water pollution
- C. Land pollution
- D. All

Answer:



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72. Cholera and typhoid are caused due to

- A. Air pollution
- B. Water pollution
- C. Land pollution
- D. All

Answer:



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73. Which of the following controls water pollution?

A. Sewage treatment

B. Recycling of industrial wastes

C. Use of biological fertilizers and pesticides

D. Proper sanitary and hygienic conditions

Answer:



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74. Excessive use of fertilizers, pesticides and insecticides to increase crop yield leads to

- A. Air pollution
- B. Water pollution
- C. Land pollution
- D. All

Answer:



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75. Land pollution leads to

- A. Destruction of soil micro-organisms
- B. Plant growth is affected
- C. Both
- D. None

Answer:



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76. Prolonged loud noise from different sources leads to

- A. Air pollution
- B. Land pollution
- C. Sound pollution
- D. All

Answer:



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77. Which of the following leads to land pollution?

- A. Radio, television
- B. Bursting of crackers
- C. Cars, motorcycles
- D. All

Answer:



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78. Partial deafness is caused due to

- A. Air pollution
- B. Land pollution
- C. Sound pollution
- D. All

Answer:



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79. Which of the following is caused due to noise-pollution?

A. Sleeplessness

B. Asthma

C. Dysentery

D. All

Answer:



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Conceptive Worksheet

1. The Earth revolves around the Sun in a nearly circular path, which is commonly called

A. Axis

B. Orbit

C. Orbital

D. None

Answer:



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2. Earth completes one revolution around the Sun in

A. 365 14 days

B. 300 days

C. 265 14 days

D. 200 days

Answer:



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3. Our solar system has _____ planets.

A. 6

B. 7

C. 8

D. 9

Answer:



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4. Earth is __ planet from the sun

A. First

B. Second

C. Third

D. Fourth

Answer:



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5. The farthest planet from the sun in the solar system is

A. Mercury

B. Earth

C. Neptune

D. Uranus

Answer:



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6. Which of the following is the reason for the existence of life on the Earth?

A. Presence of essential elements

B. Presence of oxygen

C. Presence of water

D. All the above

Answer:



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7. Which of the following keeps the things on the surface of the Earth in place, but also holds the atmosphere and the oceans in place

- A. Temperature
- B. Oxygen
- C. Gravitation of force
- D. None

Answer:



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8. The outer, rocky part around the Earth is called the

A. Geosphere

B. Hydrosphere

C. Lithosphere

D. None

Answer:



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9. The lowest layer of atmosphere is

A. Troposphere

B. Stratosphere

C. Ionosphere

D. Lithosphere

Answer:



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10. Mantle is made up of molten light materials, commonly called

A. Protoplasm

B. Cytoplasm

C. Magma

D. Matrix

Answer:



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11. Which of the following is the least abundant in earth's atmosphere?

A. Nitrogen

B. Oxygen

C. Carbon dioxide

D. Noble gases

Answer:



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12. Oxygen is the _____ abundant element in earth's atmosphere

A. First

B. Second

C. Third

D. Fourth

Answer:



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13. Biotic and abiotic components interact with each other in an ecosystem. Which of the following components of a grassland ecosystem is abiotic in nature?

A. Grass

B. Deer

C. Lion

D. Soil

Answer:



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14. Among soil, water, plants, rocks, and insects, the biotic components of the ecosystem are

- A. Soil and water
- B. Insects and soil
- C. Water and plants
- D. Plants and insects

Answer:



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15. Producers are organisms that produce organic material from inorganic material and provide energy to animals directly or indirectly. Which of the following organisms is not a producer?

A. Chemosynthetic bacteria,

B. Blue-green algae

C. Phytoplanktons

D. Zooplanktons

Answer:



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16. Producers occupy which trophic level?

A. First

B. Second

C. Third

D. Fourth

Answer:



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17. Producers are organisms that manufacture their own food. Which of the following organisms is not a producer?

A. Mango tree

B. Apple tree

C. Bacteria

D. Algae

Answer:



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18. The population of which of the following animals would decrease with an increase in the tiger population of a forest ecosystem?

A. Fox

B. Deer

C. Snake

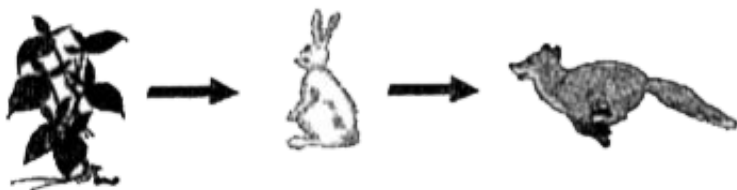
D. Hyena

Answer:



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19. Take the given food chain into account



Which of the following processes is depicted by the given arrow diagram?

A. Transfer of energy between organisms

B. Increase the production of energy by organisms

C. Increase in the transfer of energy
between organisms

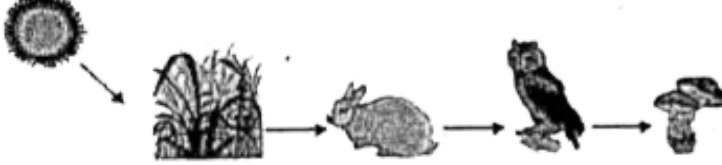
D. Transfer of energy between biotic and
abiotic components of the ecosystem

Answer:



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20. The given figure shows a food chain operating in a terrestrial habitat.



Which organism is the primary consumer in the given food chain?

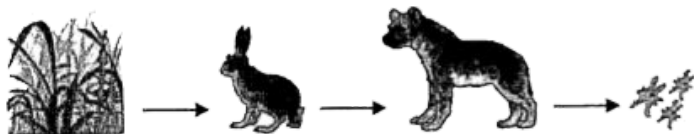
- A. Owl
- B. Plant
- C. Rabbit
- D. Fungus

Answer:



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21.



In the given food chain, the producer is

A. Bacteria

B. Rabbit

C. Hyena

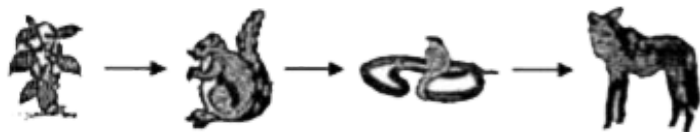
D. Plant

Answer:



Watch Video Solution

22. The illustration represents a forest food chain.



If the population of squirrel increases, then which of the following observations will be most probably true?

A. The population of plants will increase.

B. The population of the fox will increase.

C. The population of snake and fox will decrease.

D. The population of snake and plants will
decrease

Answer:



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23. _____ and _____ are the consumers
in the given food chain.



The information in which row completes the given statement?

A. i- Plants ii-reindeer

B. i-Reindeer ii-Mushroom

C. i-Mushroom ii-Hyena

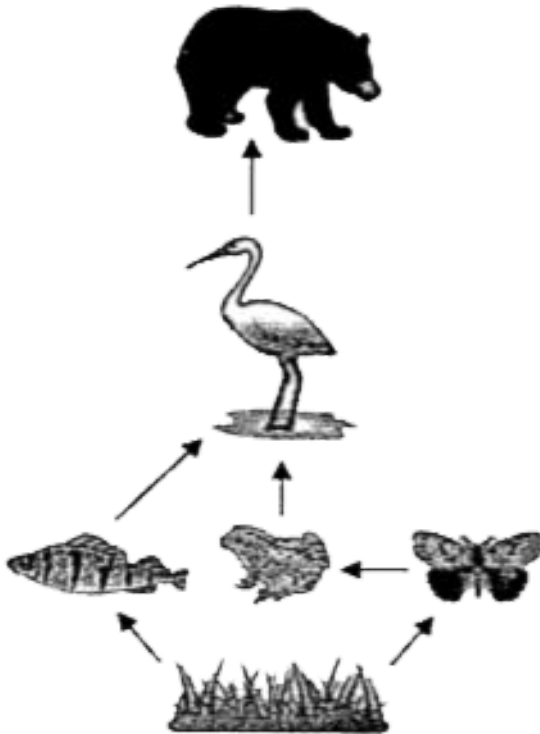
D. i-Reindeer ii-Hyena

Answer:



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24. The illustration shows a food web operating in a pond.



If the crane population decreases because of excessive hunting by humans, then which of

the following observations will be most probably true?

A. The frog population will decrease.

B. The butterfly population will increase.

C. The fish and frog population will increase.

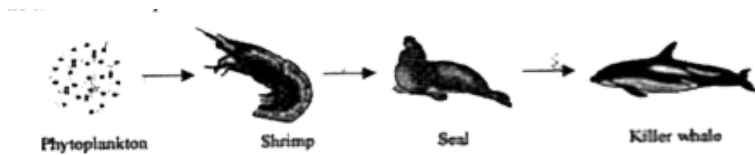
D. The bear and the butterfly population will increase.

Answer:



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25. The illustration represents a marine food chain.



If the killer whale population increases, then which of the following observations will be most probably true?

A. Increase in the seal population

B. Increase in the shrimp population

C. Decrease in the shrimp and the seal population

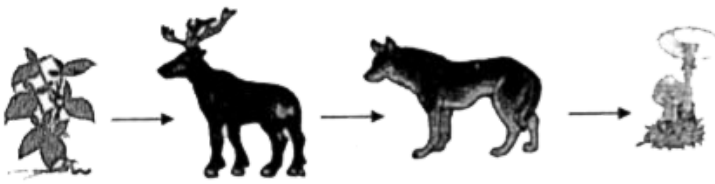
D. Decrease in the shrimp and the phytoplankton population

Answer:



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26. Decomposers are organisms that decompose the remains of dead plants and animals to aid the recycling of matter.



Which organism is the decomposer in the given food chain?

A. Caribou

B. Grass

C. Wolf

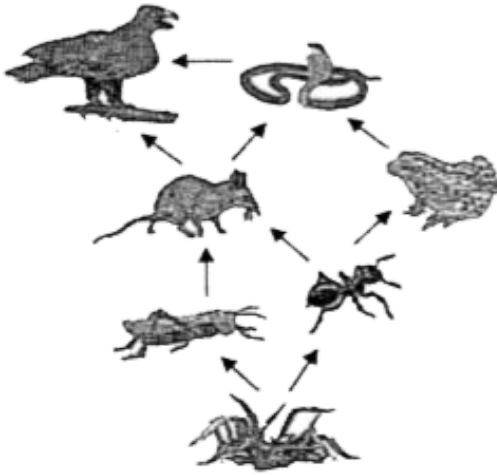
D. Fungi

Answer:



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27. The illustration represents a food web.



If the snake population decreases, which of the following observations will be most probably true?

A. The frog population will increase.

B. The grasshopper population will increase.

C. The hawk and the rat population will decrease.

D. The hawk and the frog population will decrease.

Answer:



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28. Consumers are the organisms that cannot manufacture their own food and are dependent on other organisms for food. The illustration represents a food chain



Which of the following pairs of organisms represents the consumers in the given food chain?

A. Plant and beetle

B. Lizard and beetle

C. Plant and bacteria

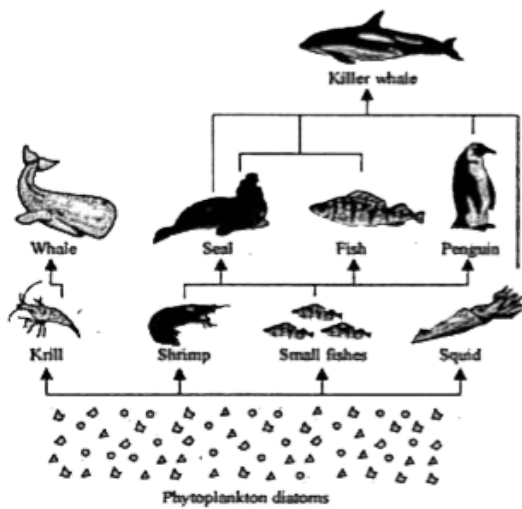
D. Lizard and bacteria

Answer:



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29. The illustration represents a food web operating in an ocean.



Which organism is a producer in the given food web?

A. Phytoplankton

B. Killer whale

C. Small fish

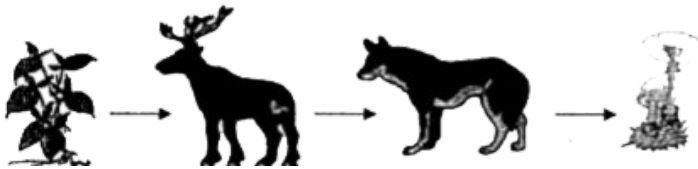
D. Squid

Answer:



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30. The illustration represents a food chain.



Which organisms are consumers in the given food chain?

A. Plants and caribou

B. Caribou and wolf

C. Wolf and bacteria

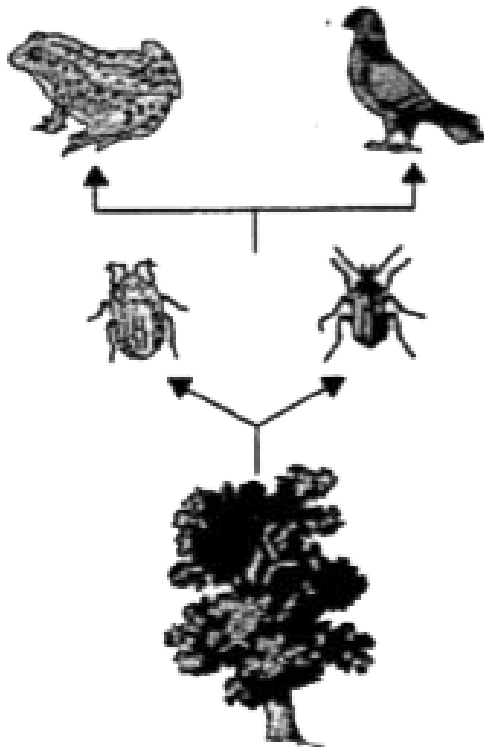
D. Fungi and plants

Answer:



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31. The illustration represents a food web.



Which organism is the primary consumer in the given food web?

A. Frog

B. Plants

C. Insects

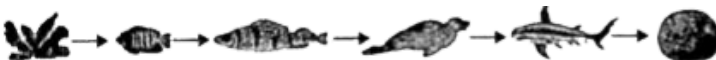
D. Pigeon

Answer:



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32. The illustration represents a marine food chain.



Which organism is the producer in the given food chain?

A. Algae

B. Sea lion

C. Bacteria

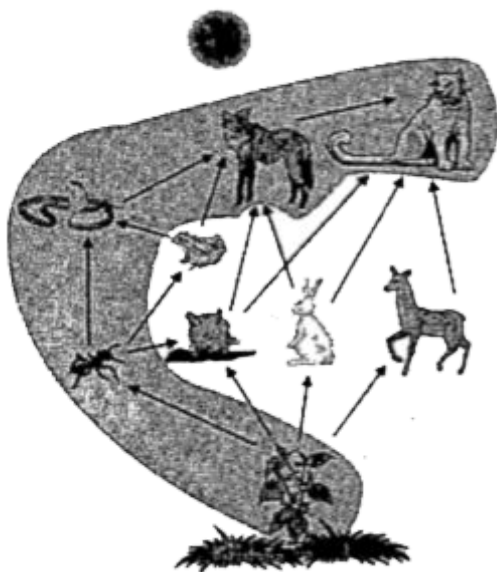
D. Small fish

Answer:



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33. The highlighted portion of the given food web represents one of the food chains operating in the food web.



Which organism is the tertiary consumer in the given food chain?

A. Ant

B. Fox

C. Snake

D. Tiger

Answer:



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34. The illustration represents a food chain.



Which organism is the decomposer in the given food chain?

A. Fox

B. Plant

C. Fungi

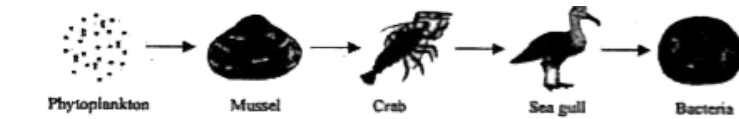
D. Caterpillar

Answer:



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35. The illustration represents a food chain operating in an ocean.



Which organism is the decomposer in the given food chain?

A. Crab

B. Mussel

C. Bacteria

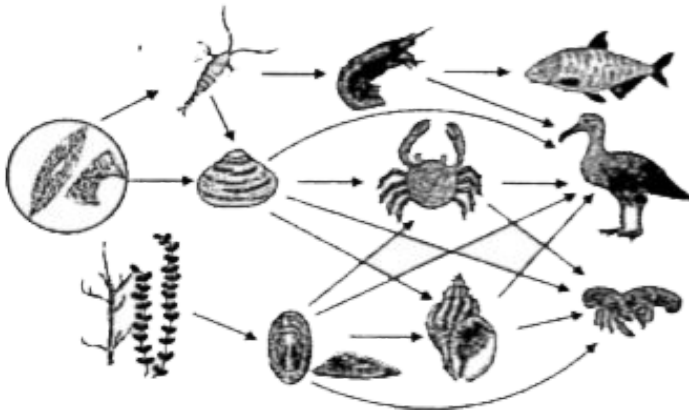
D. Phytoplankton

Answer:



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36. The illustration shows an ocean food web.



If the population of shrimp decreases, then which of the following populations would decrease?

A. Fish

B. Crab

C. Lobster

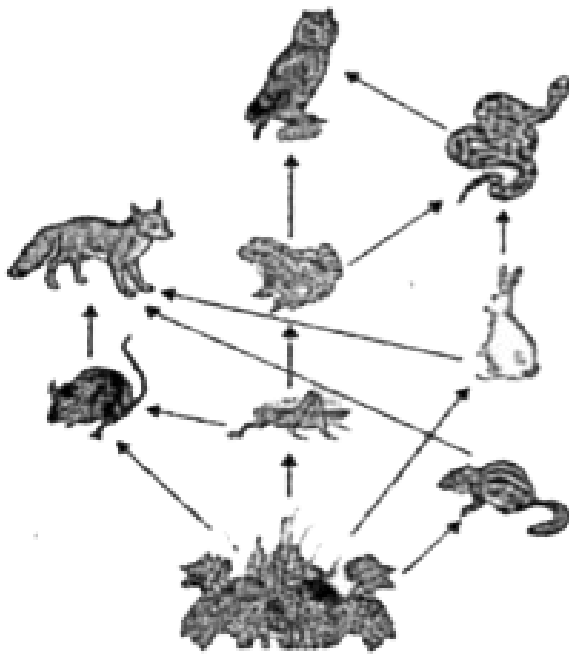
D. Zooplankton

Answer:



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37. The given figure represents a food web in a forest .



In the given food web, snakes obtain energy from

- A. Foxes and owls
- B. frogs and foxes
- C. Owls and rabbits

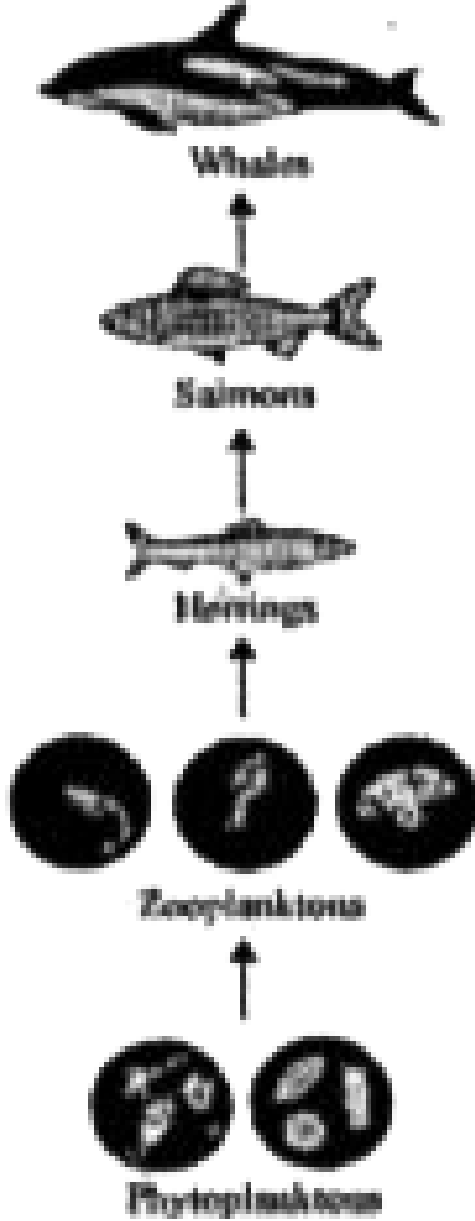
D. Rabbits and frogs

Answer:



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38. Who are the producers in the given food chain?



A. Salmons

B. Herrings

C. Zooplanktons

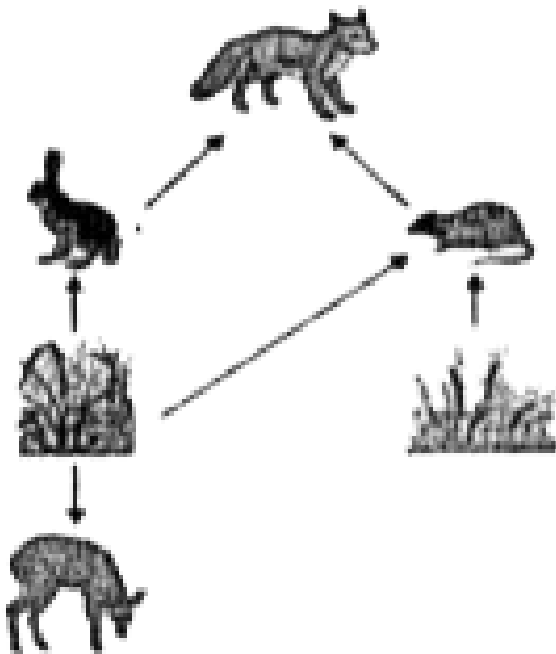
D. Phytoplanktons

Answer:



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39. The given figure represents a food web.



Who is the producer in the given food web?

A. Rabbit

B. Plant

C. Deer

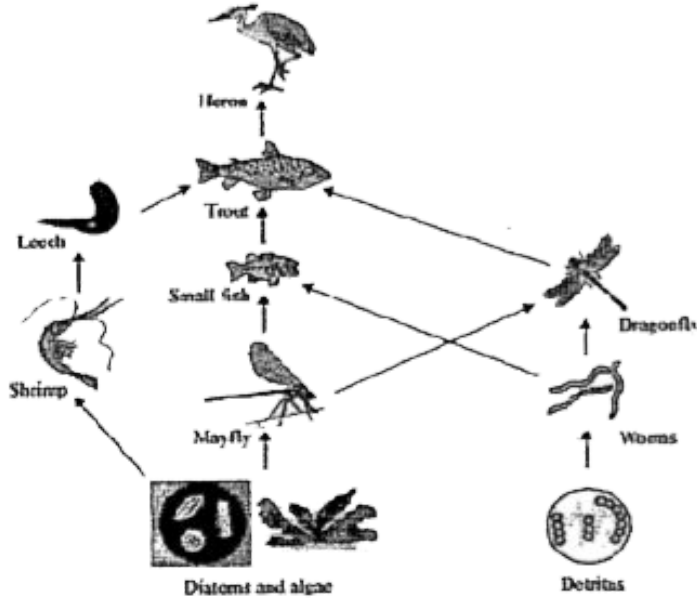
D. Fox

Answer:



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40. The given figure represents the food web of a river.



A decrease in trout population will lead to

A. A decrease in the population of algae
and diatoms

B. An increase in the population of herons
and shrimps

C. A decrease in the population of small fish and worms

D. An increase in the population of leeches and dragonflies

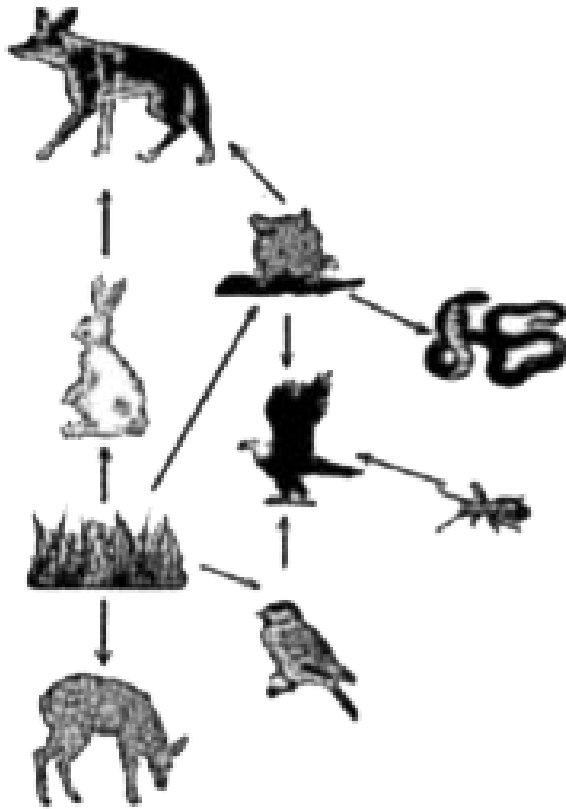
Answer:



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41. Which organism will be the most affected if the mouse is removed from the given food

web?



A. Eagle

B. Snake

C. Hyena

D. Sparrow

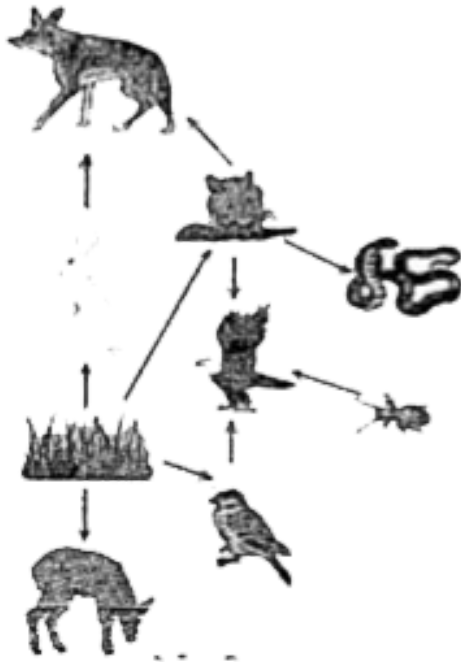
Answer:



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42. Which of the following organisms in the illustrated food web receives the least amount

of energy?



A. Plant

B. Hyena

C. Rabbit

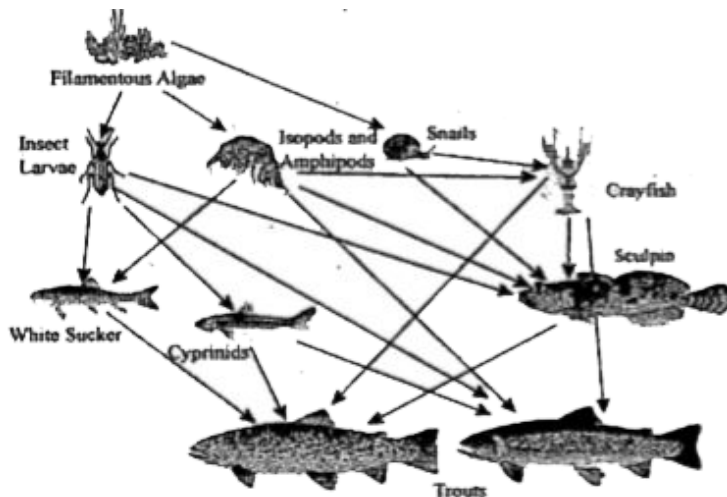
D. Mouse

Answer:



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43. The given figure shows the aquatic food web of a particular region. Humans begin consuming more snails in the said region.



The over fishing of snails by humans will greatly affect the

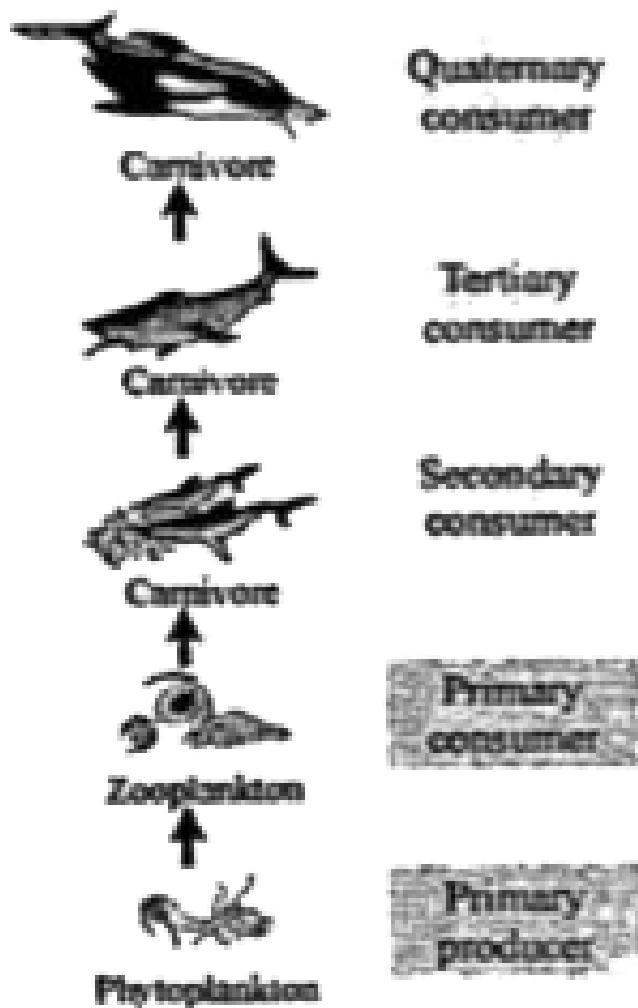
- A. Trout population
- B. Crayfish population
- C. Cyprinid population
- D. White sucker population

Answer:



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44. Phytoplanktons are an important part of ocean food chains. They are found in high productivity zones of an ocean. An increase in ocean temperature during specific times causes the death of phytoplanktons.



If all phytoplanktons die in the given food chain, then

A. All members of the food chain will continue to survive

B. Only zooplankton population will continue to survive

C. All members of the food chain will be affected

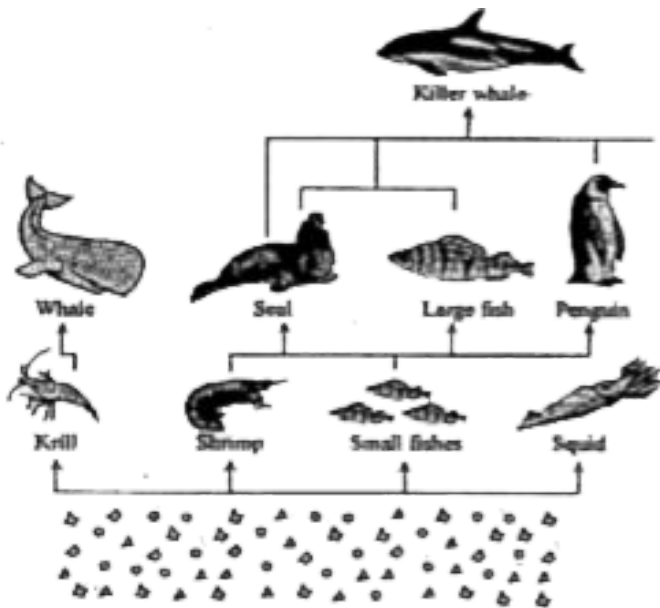
D. Only small fish population will be affected

Answer:



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45. In the illustrated food web, direct transfer of energy occurs from the



- A. Small fishes to the killer whale
- B. Small fishes to the krill

C. Seal to the killer whale

D. Krill to the seal

Answer:



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46. A food chain depicts the flow of energy from one trophic level to another. Which of the following represents the percentage of energy transfer from one trophic level to the next?

A. 10

B. 0.5

C. 0.25

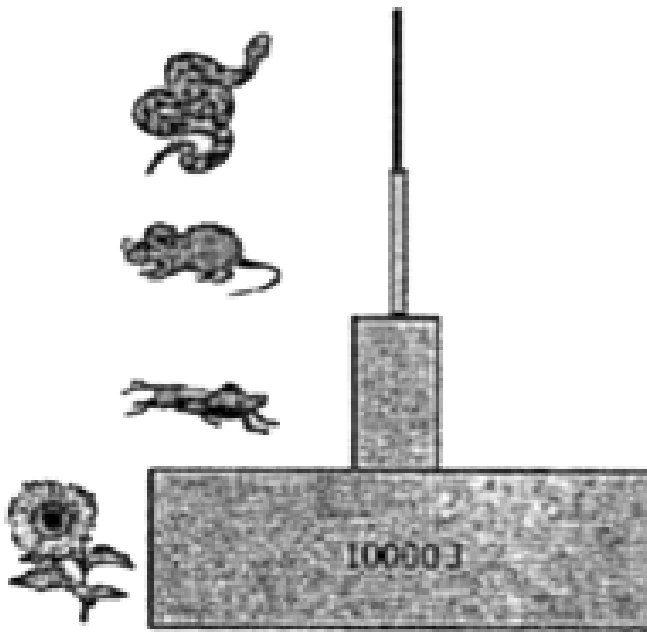
D. 0.1

Answer:



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47. The given pyramid shows a terrestrial food chain wherein 10,000 J of energy is present at the level of primary producers.



The amount of energy present at the level of mice is

- A. 10,000 J
- B. 1000 J
- C. 100 J

D. 10 J

Answer:



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48. Statement - I: The temperature is measured by a device called manometer.

Statement - II: The degree of hotness or coldness of a body is called temperature.

A. Statement - I is true, Statement - II is false

B. Statement - I is false, Statement - II is true

C. Both statements are true.

D. Both statements are false.

Answer:



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49. Tigers and elephants are found in

A. Antartica

B. Cold places

C. Warm jungles

D. Deserts

Answer:



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50. Which of the following is popularly called ship of the desert

A. Tiger

B. Lion

C. Elephant

D. Camel

Answer:



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51. Camel can live without food or water at a stretch for as many as

A. 20 days

B. 15 days

C. 10 days

D. 5 days

Answer:



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52. Assertion (A): Leaves of desert plants have been reduced to spines

Reason (R): This is to reduce loss of water from the plant's surface

A. A is correct and R is the correct explanation of A.

B. A is correct and R is not the correct explanation of

C. A is correct and R is wrong.

D. A is wrong and R is correct.

Answer:



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53. Which of the plant's Flowers bloom after sunrise and close down after sunset?

A. Rose

B. Jasmine

C. Portuhca

D. Chrysanthemum

Answer:



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54. Which of the following plant has floating leaves?

A. Lemna

B. Eicchornia

C. Opuntia

D. Asparagus

Answer:



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55. Which of the following fruit has hairs?

A. Dandelion

B. Maple

C. Mango

D. Apple

Answer:



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56. The increase in carbon dioxide level in atmosphere leads to

- A. Air pollution
- B. Water pollution
- C. Global warming
- D. Land pollution

Answer:





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57. Smog is a mixture of fog and

A. Smoke

B. Water

C. Air

D. None

Answer:



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58. Plants depend on animals for

A. Carbon dioxide

B. Pollination

C. Seed dispersal

D. All

Answer:



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59. Match the following

Column-I

1. Beverages
2. Sugar
3. Spices
4. Oil seeds

Column-II

- p. Tea, coffee
- q. Turmeric (haldi), pepper, chilli, clove (loun)
- r. Groundnut, coconut, mustard
- s. Sugarcane

A. 1234/pqrs

B. 1234/spqr

C. 1234/srqp

D. 1234/psqr

Answer:



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60. Which of the following are bio-degradable pollutants?

A. Manure

B. Garbage

C. DDT

D. Plastics

Answer:



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61. Lead is a _____ pollutant.

- A. Biodegradable
- B. Non-biodegradable
- C. Both
- D. None

Answer:



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62. Excessive burning of fossil fuels like coal, kerosene, petrol and diesel leads to

- A. Air pollution
- B. Water pollution
- C. Land pollution
- D. All

Answer:



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63. Bronchitis and asthma are caused due to

A. Air pollution

B. Water pollution

C. Land pollution

D. All

Answer:



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64. Which of the following are water pollutants?

A. Sewage

B. Industrial wastes

C. Both

D. None

Answer:



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65. Which of the following causes water pollution?

A. Bathing and washing of clothes in rivers
or ponds

B. Discharge of industrial wastes, fertilizers
and pesticides into water

C. Oil spills from oil tankers

D. All

Answer:



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66. Which of the following is caused due to water pollution

A. Bronchitis

B. Asthma

C. Jaundice

D. Dysentery

Answer:



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67. Which of the following are land pollutants?

A. Garbage

B. Fertilizers

C. Pesticides

D. All

Answer:



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68. Which of the following leads to land pollution?

- A. Improper disposal of garbage, glass bottles.
- B. Proper disposal of radioactive wastes
- C. Converting biodegradable wastes into useful products
- D. Banning of use of plastics

Answer:



69. Which of the following controls land pollution?

- A. Proper disposal of garbage, away from residential areas.
- B. Converting biodegradable wastes into useful products.
- C. Banning of use of plastics
- D. All

Answer:



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70. Which of the following controls noise pollution?

A. Ban on the use of high volume

loudspeakers and excessive use of horns.

B. Burning of crackers

C. Initiating public awareness campaigns

D. Use of pressure horns

Answer:



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Summative Worksheet Multiple Type Questions

1. Atmosphere consists of:

A. Troposphere, stratosphere, ionosphere

B. Biosphere, geosphere, lithosphere

C. Only biosphere

D. Only geosphere

Answer:



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2. The gas in the atmosphere which prevents harmful ultraviolet rays from reaching the earth is

A. Carbon dioxide

B. Ozone

C. Oxygen

D. Carbon monoxide

Answer:



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3. The part of Earth in which life exists is known as:

A. Atmosphere

B. Hydrosphere

C. Biosphere

D. Lithosphere

Answer:



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4. Which of the following are biotic components of the environment?

A. Producers

B. Carnivores

C. Herbivores

D. All the above

Answer:



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5. Vultures play the role of _____ in the environment.

A. Herbivoures

B. Scavengers

C. Carnivores

D. Decomposers

Answer:



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6. Increase in concentration of _____ gas has led to global warming.

A. Ozone

B. Sulphur dioxide

C. Nitrogen

D. Carbon dioxide

Answer:



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Summative Worksheet Fill In The Blanks

1. The two major components of environment
are _____ and _____



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2. The process of 'eating and being eaten' is termed as _____.



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3. Animals that feed on dead flesh are called _____.



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4. Organisms which feed on dead and decaying bodies are called _____.



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5. Interlinked food chains constitute a _____



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6. The food chain consists of producers and _____





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7. Bacteria and fungi act as _____ in the environment.



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8. The primary source of energy for all living organisms is _____



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9. Use of plastic bags should be avoided because



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10. Vegetables, leaves and fruits are easily decomposed because they are _____



Watch Video Solution

11. Three examples of scavengers in the environment are and _____



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Summative Worksheet Give The Differences Between The Following

1. Environment and Surroundings



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2. Distinguish between Food chain and food web.





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3. Give examples of following

Producers and Consumers



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4. Give examples of following

Herbivores and Carnivores



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5. Give examples of following
Decomposers and Scavengers.



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Summative Worksheet Define The Following Terms

1. Define the following.

Ecology



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2. Define the following:

Ecosystem



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3. Define the following terms:

Environmental factors



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4. Define the following terms:

Energy flow



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5. Define the following terms:

Scavengers



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6. Define the following terms:

Population



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7. Define the following terms:

Community



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8. What is meant by Food chain?



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Summative Worksheet Answer The Following Questions

1. Name the different kinds of living organisms which exist in our environment.



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2. How are the following adapted to live in their respective environment?

A cactus plant



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3. How are the following adapted to live in their respective environment?

Camel



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4. How are the following adapted to live in their respective environment?

Water lily



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5. How are the following adapted to live in their respective environment?

Hydrilla



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6. How are the following adapted to live in their respective environment?

Palms



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7. Name two biodegradable materials.



Watch Video Solution

8. Name one non-biodegradable material.



Watch Video Solution

9. Name two scavengers.



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10. Name the raw materials used by plants to manufacture their food.



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11. Which gas is released during the process of photosynthesis?



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12. How have the socio-cultural activities influenced our environment?



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13. Write on the cultural component of the environment.



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14. Write in brief about the components of the environment.



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15. Write the brief about the abiotic components of the environment?



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16. Give examples of three food chains operating in nature.



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17. Give reason

Plants called producer.



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18. What is meant by a food web? Explain with the help of a simple diagram.



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19. What would happen if any of the links is missing in the food chain?



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20. "Life would be impossible without plants".

Explain.



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21. Explain the importance of recycling in the environment.



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22. Mention the role played by the decomposers in an ecosystem.



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23. Justify the statement 'No living organism can live by itself.'



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24. Name three pollutants each of air, water and soil.



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