



## BIOLOGY

### BOOKS - ARIHANT PRAKASHAN

#### ECOSYSTEMS

#### Topic 1 Practice Questions 1 Mark Questions

1. Correct the statement of each bit, if necessary, by changing the underlined word only:

Carnivores are always primary consumers.



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2. Decomposers are generally ..... (green plants, microorganisms, phytoplanktons, insects)

A. green plants

B. phytoplanktons

C. insects

D. microorganisms

**Answer: D**



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3. Primary consumers are always

A. producers

B. herbivoures

C. herbivores

D. omnivores

**Answer: C**



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4. Man is

A. herbivorous

B. carnivorous

C. omnivorous

D. producer

**Answer: C**



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5. The flow of energy in the ecosystem is :



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6. Forests represent ..... ecosystem.

A. aquatic

B. terrestrial

C. estuarian

D. grassland

**Answer: b**



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7. The efficiency for energy transfer from one trophic level to another is nearly ..... per cent.

A. 1

B. 10

C. 5

D. 20

**Answer: B**



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**8.** In any given ecosystem, number of individuals in a species remains more or less constant over a period of time. This constancy of numbers is maintained by

A. parasites

B. predators

C. available food

D. all of the above

**Answer: D**

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9. What is the name of decomposers who live on dead and decaying substratum?

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10. Through which process is energy lost from living organisms?

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11. Food-chain shows a complicated net-like inter-relationship in trophic levels.

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12. Pond represents a forest ecosystem.

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13. All heterotrophs are capable of photosynthesis.

true or false



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14. Animals are responsible for utilising dead, decaying substances, thereby cycling of materials becomes feasible.



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1. Write note on :

Food chain



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2. Write a note on ecosystem.



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3. Decomposers



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4. Write short notes on Food web .



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## Topic 1 Practice Questions 3 Mark Questions

1. Differentiate between

Food Chain and Food Web



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2. Differentiate between producers and consumers.



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## Topic 1 Practice Questions Important Questions

1. Differentiate between Detritivores and Decomposers .



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## Topic 1 Practice Questions 7 Mark Questions

1. Give an account of energy flow in an ecosystem.



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2. What is ecosystem? Describe the different components of ecosystem.



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## Topic Test 1

1. The organisms at the base of food chain are

- A. herbivores
- B. photosynthetic plants
- C. saprophytic plants
- D. carnivores

**Answer: b**



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2. The importance of ecosystem lies in

- A. flow of energy
- B. cycling of materials
- C. Both (a) and (b)
- D. None of these

**Answer: c**



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3. The process of mineralisation by decomposers helps in the release of

A. inorganic nutrients from humus

B. both organic and inorganic nutrients from detritus

C. organic nutrients from humus

D. inorganic nutrients from detritus and formation of humus

**Answer: d**



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4. Approximately how much of the solar energy that falls on the leaves of a plant is converted to chemical energy by photosynthesis?

A. Less than 1 %

B. 2 – 10 %

C. 30 %

D. 50 %

**Answer: b**



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5. The raw material for decomposition is called vermicompost.



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6. Net primary productivity is..... Minus respiratory losses.



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7. Write a short note on trophic level.



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8. Write a short note on gross primary productivity.



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9. Write a short note on ten per cent law given by Lindemann.



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10. Differentiate between abiotic and biotic components.



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## Topic 2 Practice Questions 1 Mark Questions

1. When propagating unit like seeds and spores enter a barren area to initiate the process of succession , it is called :

A. nudation

B. reaction

C. ecesis

D. migration

**Answer: c**



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2. The first species that establishes itself in a barren habitat due to succession is called

- A. colony
- B. pioneer
- C. climax
- D. migrant

**Answer: b**



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3. Pyramid of energy is always inverted.



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4. Pyramid of numbers deals with the number of

- A. species in area
- B. subspecies in a community
- C. individuals in a community
- D. individuals in a trophic level

**Answer: d**



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5. Pyramid of ..... cannot be inverted.

A. energy

B. biomass

C. number

D. ecosystems

**Answer: A**



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6. Succession that starts at ..... habitat is called hydrosere.

A. sandy

B. rocky

C. aquatic

D. xeric

**Answer: C**



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7. Succession that starts at sandy habitat is called

.....

A. halosere

B. lithosere

C. psammosere

D. hydrosere

**Answer: c**



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8. Which of the following comes under supporting ecosystem services?

A. Primary productivity

B. Waste decomposition



C. Climate control

D. All of these

**Answer: A**



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9. Biogeochemical cycle may be otherwise called energy cycle.



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10. Pyramid of biomass takes into consideration the number of organisms in each trophic level.



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11. A stable community shows high species dominance.



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12. Primary succession starts where there was living matter previously.



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## Topic 2 Practice Questions 2 Mark Questions

1. Write a short note on ecological pyramids.



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2. WRITE SHORT NOTES ON :Ecosystem services



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3. Species diversity.





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4. Write short notes on Nudation .



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## Topic 2 Practice Questions 3 Mark Questions

1. Differentiate between

Hydroserere and Xeresere



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2. Differentiate between Pyramid of biomass and Pyramid of numbers

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3. Differentiate between primary and secondary succession.

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4. Differentiate between species diversity and species richness.

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5. Write a brief note about ecological services.



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## Topic Test 2

1. The concept of ecological pyramids was developed

by :

A. Reiter

B. Odum

C. Darwin

D. Elton

**Answer: D**



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2. An inverted pyramid of biomass can be found in which ecosystem?

A. Forest

B. marine

C. Grassland

D. Tundra

**Answer: B**



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**3.** What is the form of climax forest called?



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**4.** On the basis of cause, ecological succession is Autogenic and Automatic.



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5. The formation of bare area is called .....



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6. In ecological succession from pioneer to climax community, the biomass shall \_\_\_\_\_ .



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7. Cultural ecosystem services comprise of ..... and .....



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8. Write short note on climax forest.



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9. Differentiate between autotrophic succession and heterotrophic succession.



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10. Explain in detail, the process of succession occurring in water bodies.



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## Chapter Test 1 Marks Questions

1. The second trophic level in a lake is :

A. phytoplanktons

B. zooplanktons

C. benthos

D. fishes

**Answer: B**



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2. Food level in an ecosystem is called

- A. producer level
- B. trophic level
- C. consumer level
- D. pyramid

**Answer: B**



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3. When the organisms of a community modify the environment in a way that community itself is

replaced by new one, the succession is called as

- A. primary
- B. autogenic
- C. Secondary succession
- D. halosere

**Answer: B**



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4. The first link in any food chain is always a green plant because

A. they are widely distributed

B. they are firmly fixed to the soil

C. they alone have a capacity to fix atmospheric  
Co<sub>2</sub> in the presence of sunlight

D. there are more herbivorous animals than  
carnivores

**Answer: C**



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**5. Choose the correct sequence of food chain.**

A. Fallen leaves Bacteria Insect larvae Birds

B. Phytoplankton Zooplankton Fish

C. Grasses Fox Rabbit

D. Grasses Chameleon Insects Birds

**Answer: B**



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**6. Ecosystem is a**

A. both open and closed unit depending upon

biomass present

B. closed unit

C. open unit

D. both open and closed unit depending upon  
community

**Answer: C**



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7. Among the organisms given below which pair belongs to the same trophic level?

A. Cheetah and lion



B. Deer and honeybee

C. Snake and earthworm

D. Crow and cow

**Answer: A**

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8. Aquarium are the examples of a man-made terrestrial ecosystem.

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9. Peamosere and hydrosere are the two main types of biological successions.

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10. Dermatocarpon may be found in a seral stage of hydrarch succession.

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11. .... gave the 'Ten per cent law'.

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12. In an aquatic ecosystem, the limiting factor for the productivity is..... .

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13. .... represents sedimentary type of nutrient cycle .

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14. In a hydrarch succession ..... are grown in form of a climax community.

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15. The ecosystem service of regulatory includes.  
..... of air, control of ..... and diseases.



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## Chapter Test 2 Marks Questions

1. Xerarch succession.



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2. Write note on

Pyramid of biomass



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3. Biotic community.



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## Chapter Test 3 Marks Questions

1. Differentiate between Grazing and Detritus food chains



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## Chapter Test 7 Marks Questions

1. Which pioneer species are found on bare rock? How do they help in establishing the next vegetation type?



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