



BIOLOGY

BOOKS - ARIHANT PUBLICATION

ORGANISMS AND ENVIRONMENT

**Part I Organism And Its Environment Questions
For Practice Very Short Answer Type Questions**

1. Plants and animals living in a particular area
constitute

A. flora and fauna

B. community

C. ecosystem

D. ecology

Answer: B



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2. Biome is defined as

A. sum of ecosystem in a geographical area

B. sum of ecosystem of the whole earth

C. biotic potential of a population

D. biotic component of a ecosystem

Answer: A



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3. The adaptation of aquatic plants which roots are poorly developed is seen in

A. Eichhornia

B. Nymphaea

C. Dunaliella

D. Vallisneria

Answer: D



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4. Plenty of aerenchyma are found in :

A. hydrophytes

B. mesophytes

C. xerophytes

D. halophytes

Answer: A



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5. The plant that does not belong to the ecological group ,represented by the other plants is ,

A. Pistia

B. Casuarina

C. Jussiaea

D. Hydrilla

Answer: B



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6. Sunken stomata are seen in

A. hydrophytes

B. xerophytes

C. parasites

D. symbionts

Answer: B



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7. Some xerophytes have multiple epidermis like



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8. Leaves are large, broad and thin in
Plants.



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**Part I Organism And Its Environment Questions
For Practice Very Short Answer Type Questions
Correct The Statements If Required By Changing
The Underlined Words**

1. Plants which grow in strong light intensity
are called as :



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2. The organism which can tolerate a wide range of temperature are called stenothermal organisms.



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**Part I Organism And Its Environment Questions
For Practice Very Short Answer Type Questions
Express In One Or Two Words**

1. The type of habitat in which plants are adapted to live in water scarcity.



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2. The type of organisms who change their osmotic concentration according to the environment.



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3. The factors which are related to soil in a habitat.



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Part I Organism And Its Environment Questions For Practice Short Answer Type Questions

1. Write short note on hydrophytic adaptations of plants



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2. Write different features of mesophytes.



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3. What are free-floating and rooted hydrophytes?



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4. What is habitat? Name some factors which define habitat of an organism.



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5. List various adaptations shown by epidermis in xerophytic plants.



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6. Write a note on morphological adaptations xerophytes stems.



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7. Does light factor affect the distribution of organisms? Write a brief note giving suitable examples of plants.



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**Part I Organism And Its Environment Questions
For Assessment Very Short Answer Type
Questions Multiple Choice Question**

1. The organism and their environment in a particular area

A. bioregion

B. biosphere

C. ecosystem

D. biome

Answer: C



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2. Community is a group of independent and interacting population of

A. different species

B. same species

C. same species in a specific area

D. different species in a specific area

Answer: D



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3. Group of two more than two plant species is called as

A. plant community

B. animal ecosystem

C. plant ecosystem

D. ecological niche

Answer: A



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4. Which of the following is an animal of benthic zone?

A. Frog

B. Chemosynthetic bacteria

C. Rat

D. Human being

Answer: B



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5. Example of submerged hydrophyte is

A. Hydrilla

B. Lemna

C. Nelumbium

D. Eichhornia

Answer: B



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**Part I Organism And Its Environment Questions
For Assessment Very Short Answer Type
Questions Fill In The Blanks**

1. Fish, amphibians and reptiles are



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2. Root caps are present in



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**Part I Organism And Its Environment Questions
For Assessment Very Short Answer Type
Questions Correct The Following Sentence If
Required By Changing The Underlined Word**

1. Plants growing in moist habitat are known as xerophytes.



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2. Plants growing in dry land are called mesophytes.



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Questions Express In One Or Two Words

1. Plants growing or adapted to live in the shade.



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2. Plants that grow best in direct sunlight.



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Part I Organism And Its Environment Questions

For Assessment Short Answer Type Questions

1. How does temperature affect the organisms?



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2. Explain the adaptations and the features found in the plant

Nymphaea



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3. Explain the adaptations and the features found in the plant

Opuntia



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4. Write short note on limnetic zone.



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5. Write short note on types of xerophytes.



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Part II Population Questions For Practice Very Short Answer Type Questions Choose The Correct Option

1. Association of animals belonging to different species where both partners are benefitted, is called

A. commensalism

B. mutualism

C. colony

D. sympathy

Answer: B



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2. A high density of tiger population in an area can result in

A. predation

B. interspecific competition

C. intraspecific competition

D. protooperation

Answer: C



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3. Which of the following shows detrimental effects on species

A. mutualism

B. predation

C. parasitism

D. competition

Answer: D



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4. Plasmodium is an example of

A. predator

B. endoparasite

C. prey

D. ectoparasite

Answer: B



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5. Monarch Butterfly is not eaten by predators

because of :

A. rough skin

B. bitter taste

C. foul smell

D. colouration

Answer: B



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Part Ii Population Questions For Practice Very Short Answer Type Questions Correct The Statements If Required By Changing The Underlined Words

1. The competition for food and between the members of same species is called interspecific competition.



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2. Mutualism is a mechanism of coexistence of competitive species.



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3. Bell - shaped polygonal pyramid indicates :



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Part Ii Population Questions For Practice Very Short Answer Type Questions Fill In The Blanks

1.pyramid represents stable population



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2. is one of the factor which contributes to decrease in population density.



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Part Ii Population Questions For Practice Very Short Answer Type Questions Express In One Or Two Words

1. Sigmoid / logistic growth curve is represented by :



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2. Name the relation exhibited by algae and fungi in a lichen.



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3. The number of deaths taking place in a particular population in the unit time.



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Part II Population Questions For Practice Very Short Answer Type Questions Short Answer Type Questions

1. List any four characteristics that are employed in human population census.



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2. Describe the mutual relationship between the fig tree and wasp and comment on the

phenomenon that operates in their relationship.



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3. What is mutualism? Mention any two examples where the organisms involved are commercially exploited in agriculture.



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4. Name important defense mechanisms in plants against herbivory.



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5. What is predation? Explain with the help of suitable examples why is it required in a community with rich biodiversity.



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6. Name the interaction in:

Cuckoo lays her eggs in the crow's nest.



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7. Name the interaction in

Orchid grows on a mango tree.



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8. Name the interaction in

Ticks live on the skin of dogs.



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9. Explain the S-shaped pattern of population growth. How is J-shaped pattern different from it and why?



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10. Explain diagrammatically the age structure of expanding, stable and declining population.



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Part II Population Questions For Assessment Very Short Answer Type Questions Choose The Correct Option

1. The association of animals where both partners are benefitted is

A. commensalism

B. amensalism

C. mutualism

D. parasitism

Answer: C



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2. There are two optimal ways of exploitation one way is parasitism. Which is the other one?

A. Antibiosis

B. Competition

C. Predation

D. Commensalism

Answer: C



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3. The most important factor which determined the increase in human population in India during 20th century is

A. natality

B. mortality

C. immigration

D. emigration

Answer: A



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4. Population density is represented by

A. N/S

B. N/t

C. t/S

D. DN_n / Dt

Answer: D



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5. Natality increases the

A. population density

B. population size

C. number of organisms in the population

D. All of the above

Answer: D



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Part II Population Questions For Assessment Very Short Answer Type Questions Fill In The Blanks

1. Mutualism is a mechanism of coexistence of competitive species.



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2. Fig and wasp show..... relationship.



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Part II Population Questions For Assessment Very Short Answer Type Questions Correct The Following Sentence If Required By Changing The Underlined Word S

1. Lichens represent an intimate mutualistic relationship between fungus and algae.



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2. Mediterranean orchid ophrys employs sexual compatibility to get pollinated by bee.



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Questions

1. The mechanism in which one animal kills other and eat it.



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Part II Population Questions For Assessment Very Short Answer Type Questions Express In One Or Two Words

1. The mechanism in which one species depend on the other for food and shelter.



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2. What is meant by sex ratio? Is it a characteristic of an individual or a population?



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3. Why are predators considered prudent in nature?



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4. What is brood parasitism? Explain with the help of an example.



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5. Write a short note on mutualism.



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Part II Population Questions For Assessment Very Short Answer Type Questions Differentiate Between The Following For Complete Chapter

1. Differentiate between : Population and community.



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2. Differentiate between
Mesophytes and Hydrophytes



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3. Differentiate between

Mutualism and commensalism



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4. Differentiate between

Parasitism and Predation



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5. Differentiate between

Ectoparasites and Endoparasites



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6. Distinguish between: Immigration and emigration



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7. Differentiate between

Camouflage and Mimicry



Watch Video Solution

8. Differentiate between

Intraspecific competition and interspecific competition



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Odisha Bureau S Textbook Solutions Very Short Answer Type Questions Multiple Choice Questions

1. A population is a group of _____

- A. individuals in a species
- B. species in a community
- C. individuals in a family
- D. communities in an ecosystem

Answer: A



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2. Exponential growth occurs when there is

A. a great environmental resistance

B. a fixed carrying capacity

C. no biotic potential

D. no environmental resistance

Answer: D



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3. In a population , unrestricted reproductive capacity is called _____

A. carrying capacity

B. birth rate

C. biotic potential

D. fertility rate

Answer: B



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4. Two opposite forces operate in the growth and development of every population. One of them relates to the ability to reproduce at a given rate. The force opposing it is called:

A. environmental resistance

B. mortality

C. fecundity

D. biotic control

Answer: B



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5. Carrying capacity of a population is determined by its _____

A. population growth rate

B. mortality

C. limiting resources

D. natality

Answer: C



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6. Which of the following is a conduit for energy transfer across trophic level ?

A. mutualism

B. parasitism

C. proto cooperation

D. predation

Answer: D



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7. Phenomenon of inhibition of growth of one species by other species through secretion of some chemicals is termed as _____

A. commensalism

B. allelopathy

C. mutualism

D. predation

Answer: B



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8. Predation perform all . Except _____

- A. transfer of energy
- B. loss of sense organs
- C. keeps prey population under control
- D. maintains species diversity

Answer: B



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9. Two important factors that influences the life of organisms are _____

- A. soil, temperature
- B. soil, light
- C. light, water
- D. water, temperature

Answer: C



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10. Ecology describes _____

A. interactions between living organisms only

B. intraspecific competitions only

C. interactions between members of single species

D. interactions of organisms and abiotic around components

Answer: D



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Odisha Bureau S Textbook Solutions Very Short Answer Type Questions Correct The Sentences Changing The Underlined Word Only

1. Fill in the blank: The study of interactions between living organisms and environment is _____.



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Odisha Bureau S Textbook Solutions Very Short Answer Type Questions Express In One Or Two Words

1. Amount of water vapours actually present in the air at any given time.



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2. The total amount of water in the soil, except the gravitational water.



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3. Association of fungi and algae.



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4. Study of soil.



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5. Vegetation where the annual rainfall is more than 50 inches.





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6. Plants those grow in sand and low water are xerophytes. True or False



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7. Sunken stomata is a characteristic of hydrophytes.



Watch Video Solution

8. Air pockets are found in mesophytes.



Watch Video Solution

9. The pre-reproductive mass is found more in urn-shaped pyramid.



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10. Population consists of different kinds of species.



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Odisha Bureau S Textbook Solutions Very Short Answer Type Questions Fill In The Blanks

1. Shallow water region present on the edge of lakes is called.....



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2. The most relevant ecological factor is.....



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3. The two basic processes which contribute to a decrease in population density are :



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4. J-shaped curve represents..... growth



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5. Geometric representation of age structure is a characteristic of :



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Odisha Bureau S Textbook Solutions Short Answer Type Questions

1. Define the following terms and give one example for Camouflage



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2. Edaphic factor



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3. What is habitat? Name some factors which define habitat of an organism.



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4. Temperature



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5. Biomes



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6. Population



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7. Write notes with 2 to 3 important points :

Competition



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8. Abiotic factors



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9. Population density is represented by



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10. Necessity of adaptations



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Odisha Bureau S Textbook Solutions Short Answer Type Questions Differentiate Between The Following

1. Differentiate between

Habitat and Niche



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2. Differentiate between

Mutualism and Parasitism



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3. Differentiate between

Hydrophytes and Xerophytes



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4. Differentiate between

Birth rate and Death rate



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5. Differentiate between

Fertility and Fecundity



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6. Differentiate between

Logarithmic and Exponential growth



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**Odisha Bureau S Textbook Solutions Long
Answer Type Questions**

1. Explain, what is population? Describe the different characteristics of population.



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2. What do you understand by population?

Explain the different attributes of the population.



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3. Explain, how different organisms interact in a population emphasising on the possibilities of various relationships.



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4. What is habitat? Describe the different types of abiotic factors present in the habitat.



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5. What are the organs of similar function but of different pattern of origin and development called?



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Chapter Practice Very Short Answer Type Questions Choose The Correct Option

1. Species interaction with negative influence on both is called

- A. predation
- B. parasitism
- C. ammensalism
- D. competition

Answer:





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2. Nymphoides is a

- A. submerged hydrophyte
- B. floating hydrophyte
- C. Rooted hydrophyte
- D. None of the above

Answer:



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3. Sun loving plants are

A. halophytes

B. sciophytes

C. heliophytes

D. autotrophs

Answer:



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4. Which is amphibious plant?

A. Hydrilla

B. Potamogeton

C. Sagittaria

D. Wolffia

Answer:



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5. The assemblage of all the population of different species that function as an integrated unit through coevolved metabolic transformation in a specific area is called

A. biome

B. biotic community

C. population

D. ecosystem

Answer:



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Chapter Practice Very Short Answer Type Questions Fill In The Blanks

1. In ecology, represents population density.



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2.of an organism denotes habitat as well as interrelations.



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Chapter Practice Very Short Answer Type Questions Correct The Statement If Required By Changing The Underlined Word

1. Thick cuticle occurs on the leaves of plants belonging to dry habitats.



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2. The roots are absent in the plants growing in water.



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**Chapter Practice Very Short Answer Type
Questions Express In One Or Two Words**

1. The curve when the resources are abundant.



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2. The organism which cannot maintain a constant internal environment.



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Chapter Practice Very Short Answer Type Questions Short Answer Type L Questions

1. State any three methods by which animals cope with the temporary unfavourable conditions in their habitat when they cannot migrate.



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2. What are ecological adaptation of succulents ?



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3. Write the formula for the change in population density.



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4. Explain the S-shaped pattern of population growth. How is J-shaped pattern different from it and why?



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5. Describe the role of light, soil and temperature in an terrestrial ecosystem.



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6. Name three broad categories of xerophytes.

State one function of each.



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7. Explain various anatomical features of xerophytes.



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1. Differentiate between expanding and stable pyramid.



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