



# **BIOLOGY**

**BOOKS - VIKRAM PUBLICATION (  
ANDHRA PUBLICATION)**

**ECOLOGICAL ADAPTATION,  
SUCCESSION AND ECOLOGICAL  
SERVICES**

**Important Questions**

1. Climax stage is achieved quickly in secondary succession as compared to primary succession . Why ?



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2. Name the type of land plants that can tolerate the salinities of the sea.



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3. Define population and community.



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4. Hydrophytes show reduced xylem . Why ?



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5. What are hydrophytes ? Briefly discuss the different kinds of hydrophytes with example.



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6. Write a brief account on classification of xerophytes.



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7. Define plant succession. Differentiate primary and secondary successions.



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8. Write about the measure to be taken to sustain ecological function .



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9. What measure do you suggest to protect the pollinators ?



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**Very Short Answer Type Questions**

1. Climax stage is achieved quickly in secondary succession as compared to primary succession . Why ?



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2. Among Bryophytes, lichens and ferns which one is a pioneer species in a xerarch succession.



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3. Give any two examples of xerarch succession.



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4. Name the type of land plants that can tolerate the salinities of the sea.



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5. Define Heliophytes and Sciophytes. Name a plant from your locality that is either

Heliophyte or Sciophyte.



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6. Define population and community.



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7. Define communities ? Who classified plant communities into hydrophytes, mesophytes and xerophytes ?



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8. Hydrophytes show reduced xylem . Why ?



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## Short Answer Type Questions

1. What are hydrophytes ? Briefly discuss the different kinds of hydrophytes with example.



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2. Enumerate the morphological adaptations of hydrophytes.



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3. Enumerate the morphological adaptations of hydrophytes.



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4. Write a brief account on classification of xerophytes.



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5. Enumerate the morphological adaptations of xerophytes.



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6. Give in detail the anatomical adaptations shown by xerophytes.



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7. Define plant succession. Differentiate primary and secondary successions.



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**8.** Define ecosystem/ecological services.

Explain in brief with regard to pollination.



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**9.** Write about the measure to be taken to sustain ecological function .



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**10.** What measure do you suggest to protect the pollinators ?



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## Long Answer Type Question

**1.** Give an account of ecosystem services with reference to carbon fixation and oxygen release.



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## Textual Exercise

1. Categorise the following plants into hydrophytes halophytes, mesophytes and xerophytes and give reasons.

a) Salvinia   b) Opuntia   c) Rhizophora   d)  
Mangifera



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2. In a pond, we see plants which are free-floating: rooted-submerged, rooted emergent, rooted with floating leaves, write the type of plants against each of them.



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3. Undertake the following a part of learning process.

Identify and assess ecological services found in your area.







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4. Undertake the following a part of learning process.

Think of measures or means to sustain such ecological services.



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5. What is the change in types of crops grown in the villages?



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6. Undertake the following a part of learning process.

Identify and assess ecological services found in your area.



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7. Undertake the following a part of learning process.

find out the ecological goods of natural forests commonly used in your area.



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**8.** Undertake the following a part of learning process.

Observe the biotic agents of pollination for ornamental flowering plants and agricultural crops in your locality.



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