

- Instructions:** (1) Draw figures where necessary.
(2) Show question number against each answer.

Q1. Write a detail note on ecological pyramids with diagram. (14)

OR

Q1(A) Explain the concept of limiting factor and tolerance. (07)

Q1(B) Write a detail note on synthetic characters. (07)

Q2. Write a note on India as Mega-diversity nation. (14)

OR

Q2(A) Write a detail note on Tundra & Chaparral biomes. (07)

Q2(B) Note on aquatic biomes in detail. (07)

Q3. What is ecological succession? State its types, write detail the process of succession. (14)

OR

Q3(A) Detail note on species interaction in an ecosystem. (07)

Q3(B) Detail note on primary succession. (07)

Q.4 Write a note on ecological adaptation of hydrophytes in detail. (14)

OR

Q.4(A) Explain the mechanism of adaptation to environmental stresses. (07)

Q.4(B) Write a note on ecological adaptation of xerophytes. (07)

Q.5 Answer any **seven** out of twelve. (14)

1. Define tolerance range.
 2. Give example of flora and fauna of India.
 3. Define commensalism.
 4. What is the average rainfall in dessert?
 5. Draw the outline of grazing food chain.
 6. Define: Edge Effect.
 7. Why is adaptation important?
 8. What is climax community?
 9. What type of species are found on mesophytes?
 10. How many types of xerophytes are there?
 11. Explain submerged hydrophytes.
 12. What is stabilization?
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