

Class: 12
Subject: Biology
Topic: Biodiversity and conservation
No. of Questions: 25

- Q1. How do ecologists estimate the total number of species present in the world?
- Q2. What is the significance of the slope of regression in a species-area relationship?
- Q3. How is biodiversity important for ecosystem functioning?
- Q4. What are sacred grooves? What is their role in conservation?
- Q5. Among the ecosystem services are control of floods and soil erosion. How is this achieved by the biotic components of the ecosystem?
- Q6. The species diversity of plants (22%) is much less than that of animals (72%). What could be the explanations to how animals achieved greater diversification?
- Q7. Can you think of a situation where we deliberately want to make a species extinct? How would you justify it?
- Q8. Define cryopreservation.
- Q9. What are endangered species? How many animals plants are endangered in India?
- Q10. What is in situ conservation?
- Q11. "Stability of a community depends on its species richness." Write how did David Tilman show this experimentally.
- Q12. What is meant by "alien species" invasion? Name one plant and one animal alien species that are a threat to our India native species.
- Q13. What are the specific objectives of conservation of wild life?
- Q14. A. Expand the abbreviations IUCN, CBD and CITES.
B. In which year and where Earth Summit was held?
C. When did India sign CBD?
D. List three goals of CBD.

- Q15. Discuss on example, based on your day to day observations, showing how loss of one species may lead to the extinction of another?
- Q16. Why are the conventional methods not suitable for the assessment of biodiversity bacteria?
- Q17. How is the 'sixth episode of extinction' of species on earth, now currently in progress, different from the five earlier episodes? What is it due to? Explain the various causes that have brought about this difference.
- Q18. A. Mention those red list categories which together are referred to as 'threatened species'.
B. What are rare species? Are these endangered or vulnerable at present? Give any one example of rare species in India.
- Q19. A
a. What are hot spots of biodiversity?
b. List four main criteria for determining a particular place as a hot spot.
c. Among the hot spots of the world, list two which are located in India.
- Q20. From among plants, invertebrates and vertebrates, list respectively those taxa which occur maximum in numbers at present.
- Q21. How many bio-geographical regions are present in India?
- a) 3
b) 4
c) 7
d) 10
- Q22. Lime is added to the soil which is too
- a) Sandy
b) Salty
c) Alkaline
d) Acidic

Q23. Which one of the following areas in India, is a hotspot of biodiversity?

- a) Sunderbans
- b) Western Ghats
- c) Eastern Ghats
- d) Gangetic Plain

Q24. Darwin's finches are a good example of

- a) Convergent evolution
- b) Industrial melanism
- c) Connecting link
- d) Adaptive radiation

Q25. Which one of the following is an example ex-situ conservation?

- a) National park
- b) Wildlife sanctuary
- c) Seed bank
- d) Sacred groves