



BIOLOGY

BOOKS - BETTER CHOICE PUBLICATION

BIODIVERSITY AND CONSERVATION

Very Short Answer Type Questions 1 Marks

1. What is the significance of species diversity?



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2. List some benefits of biodiversity.



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3. Which is the most Important causes of extinction of our wild-life?



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4. Define Biodiversity. Who coined the term Biodiversity?



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5. Name the largest Biodeographic region of India.



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6. What two animal species recently extinct.



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7. What is in situ conservation.



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8. What is national park ?



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9. Name any two sanctuaries in India.



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10. Name three categories of threatened species.



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11. Write briefly about: Ex-situ conservation



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Very Short Answer Type Questions Most Expected Questions 1 Marks

1. What Is the new name of IUCN?



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2. What is Red Data Book?



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3. Name the two major approaches for the conservation of biodiversity.



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4. Name the Hot spots in our country.



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5. The species diversity of plants is much less than of animals. What could be the reason that animals achieved greater diversification?



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6. Can you think of a situation where we deliberately want to make a species extinct?

How would you justify it?



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7. Why is genetic variation important on the planet *Rauwolfia vomitoria*?



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8. What is Red Data Book?



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9. Define gene pool.



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10. India has more than 50,000 strains of rice.

Mention the level of biodiversity it represents.



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Short Answer Type Questions 2 Marks

1. Explain what is meant by species diversity.



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2. What are threatened species? Name their three types in order of the danger of extinction they face.



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3. Why is biosphere called a life supporting zone of earth?



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4. list four factors contributing to extinction of species.



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5. What are sacred groves ? What is their role in conservation?



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6. Define biodiversity. How is biodiversity important for ecosystem functioning?



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7. Differentiate between National Park and Sanctuary.



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8. List the uses of biodiversity.



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9. Give the characteristics of species which are susceptible to extinction.



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10. Mention those red list categories which together are referred to as threatened species.



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11. Write two major uses of red data book .



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12. Amazonian rain forest has the greatest biodiversity on earth. List any two hypothesis that are proposed by account for the greater biological diversity?



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Short Answer Type Questions Most Expected Questions 2 Marks

1. Justify with the help of an example where a deliberate attempt by human has led to the

extinction of a particular species.



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2. Explain 'rivet popper hypothesis'.



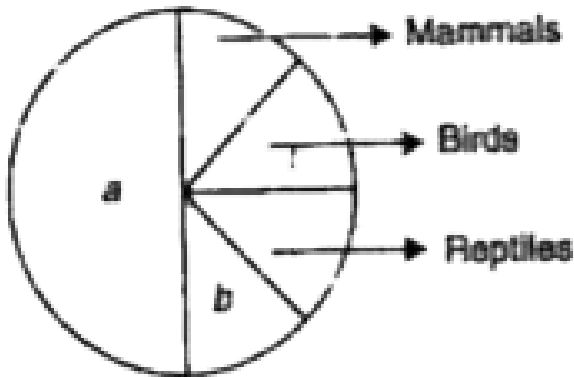
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3. How is biodiversity important for ecosystem functioning?



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4. Name the unlabelled areas 'a' and 'b' of the pie chart representing biodiversity of vertebrates showing the proportionate number of species of major taxa.



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5. A particular species of wild cat is endangered. In order to save them from extinction, which is a desirable approach in situ or ex situ? Justify your answer and explain the difference between the two approaches.

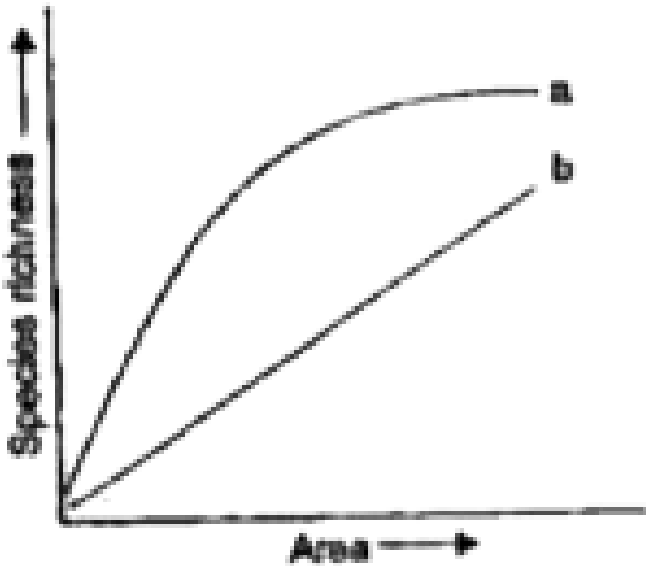


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6. The relation between species richness and area for a wide variety of taxa turns out to be rectangular hyperbola. Give a brief

explanation.

The above graph shows Species-Area relationship. Write the equation of the curve 'a' and example.



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7. What is extinction and give different types of extinction of species?



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8. Describe international Efforts for conservation of biodiversity.



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Short Answer Type Questions 3 Marks

1. Give the main causes of extinction of a species by human intervention.



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2. What are three major threat categories of species?



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3. Write any six uses of Biodiversity.



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4. How is Bio-diversity distributed along major environmental gradients?



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5. What is meant by 'Hot spots' in Biodiversity?

List two criteria used for determining a 'Hot spots'. Name two 'Hot spots' in India.



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6. What are sacred groves ? What is their role in conservation?



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7. Write about ex-situ conservation strategies for conservation of biodiversity.



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8. Describe some international efforts for conserving biodiversity. Mention the objectives of conservation of biodiversity.



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9. What are protected areas? Explain any one of them.



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10. Describe the traditional approach for Biodiversity Conservation in India .



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11. What is biodiversity? Why is it a matter of concern now?



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12. List some conservation strategies to protect the wild life.



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13. Explain national parks, sanctuaries and biosphere reserve as in-situ conservation.



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**Short Answer Type Questions Most Expected
Questions 3 Marks**

1. What is the significance of the slope of regression in a species - area relationship?



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2. What are major causes of species losses in a geographical area ?



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3. What are the main benefits of protected areas.



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4. What are the sacred forests and sacred lakes?



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5. List three consequences of loss of biodiversity.



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6. Among the ecosystem services are control of floods and soil erosion. How is this achieved by the biotic components of the ecosystem?



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7. What is the significance of the slope of regression in a species - area relationship?



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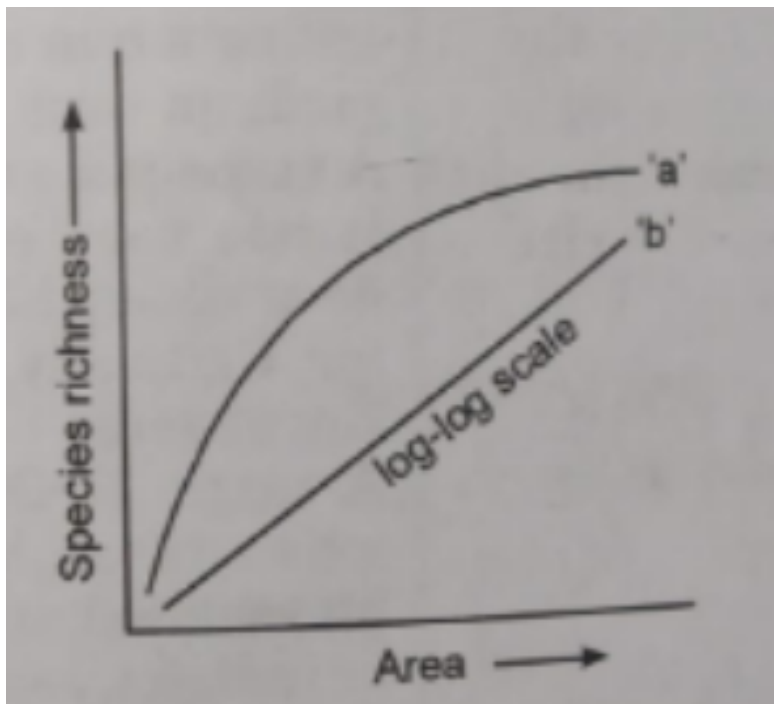
8. What are sacred groves ? What is their role in conservation?



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9. The following graph shows the species area relationship. Answer the following questions as directed.

Name the naturalist who studied the kind of relationship shows in the graph. Write the observations made by him.



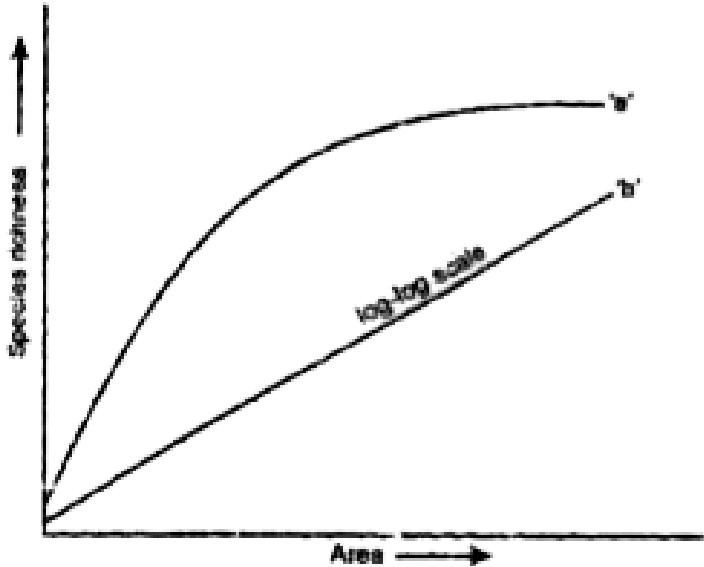


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10. The following graph shows the species area relationship. Answer the following question as directed.

Write the situations as discovered by the ecologists when the value of 'Z' (slope of the line) lies

0.1 and 0.2 What does 'Z' stand for?



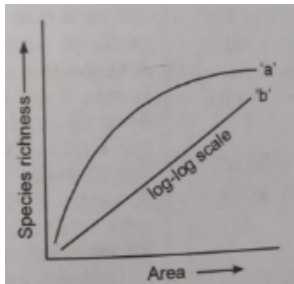
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11. The following graph shows the species area relationship. Answer the following questions as directed.

Write the situations as discovered by the ecologists when the value of 'Z' (slope of the line) lies between

0.6 and 1.2

What does 'Z' stand for?

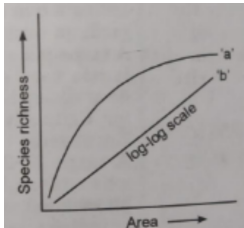


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12. The following graph shows the species area relationship. Answer the following questions

as directed.

When would the slope of the line 'b' become steeper?



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13. Alien species are highly invasive and threat to indigenous species. Substantiate this statement with any two examples.



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14. Giving two reasons explain why there is more species biodiversity in tropical latitudes than in temperate ones.



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15. Give three hierarchial levels of biodiversity.



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16. The tropics between $23.5^{\circ} N$ to $23.5^{\circ} S$ harbours more species than temperate and polar regions. Enlist the probable reason for Difference in biodiversity between tropical and temperate regions.



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Long Answer Type Questions 5 Marks

1. What kinds of threats to the biodiversity may lead to its loss?



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2. How is the biodiversity conserved at all levels?



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3. What are major causes of species losses in a geographical area ?



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4. List some benefits of biodiversity.



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5. What is ex-situ conservation ? Discuss in detail the ex-situ conservation strategies for

protection of wild life.



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6. What is in-situ conservation ? Discuss in detail the in-situ conservation strategies for protecting wild life.



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7. What do you understand by extinction of biodiversity ? Discuss in detail the various

causes for the extinction of biodiversity.



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8. Describe the efforts made for conservation of biodiversity in India.



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9. Discuss the factors which necessitate the conservation of wild life.



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10. Define biodiversity. List the causes of biodiversity loss. How can we conserve it?



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11. Define biosphere reserves.



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12. Explain various zones of biosphere reserves and write significance of biosphere reserves.



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13. What is the significance of the slope of regression in a species - area relationship?



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Long Answer Type Questions Most Expected Questions 5 Marks

1. Broadly classify the extinction processes.



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2. The loss of one species may lead to extinction of another. Explain it by taking an example.



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3. Elaborate how invasion by an alien species reduces diversity of an area.



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4. What are wetlands or Ramsar sites? Name different types.



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5. Explain the role of people in conservation of biodiversity.



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6. Describe the structure of an ecosystem



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7. Define the following :- Gross primary productivity.



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8. Define the following :- Net primary productivity.



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9. Define the following :- Secondary productivity.



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