



# **BIOLOGY**

## **BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)**

### **BIODIVERSITY AND ITS CONSERVATION**

**Textbook Evaluation Solved**

1. Which of the following region has maximum biodiversity?

A. Taiga

B. Tropical forest

C. Temperate rain forest

D. Mangroves

**Answer: B**



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2. Conservation of biodiversity within their natural habitat is.

- A. In-situ conservation
- B. Ex-situ conservation
- C. In vivo conservation
- D. In vitro conservatiob

**Answer: A**



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3. Which one of the following is not coming under in-situ conservation?

A. Sanctuaries

B. Natural parks

C. Zoological park

D. Biosphere reserve

**Answer: C**



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4. Which of the following is considered a hotspots of biodiversity in India?

- A. Western ghats
- B. Indo-gangetic plain
- C. Eastern Himalayas
- D. A and C

**Answer: D**



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5. The organization which published the red list of species is

A. WWF

B. IUCN

C. ZSI

D. UNEP

**Answer: B**



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6. Who introduced the term biodiversity?

A. Edward Wilson

B. Walter Rosen

C. Norman Myers

D. Alice Norman

**Answer: B**



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7. Which of the following forests is known as the lungs of the planet earth?

A. Tundra forest

B. Rain forest of north east India

C. Taiga forest

D. Amazon rain forest

**Answer: D**



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8. Which one of the following are at high risk extinction due to habitat destruction?

A. Mammals

B. Birds

C. Amphibians

D. Echinoderms

**Answer: C**



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9. Assertion: The environmental conditions of the tropics are favourable for speciation and diversity of organisms. Reason: The climate, seasons, temperature, humidity and photoperiod are more or less stable and congenial.

A. Both Assertion and Reason are true and Reason explains Assertion correctly.

B. Both Assertion and Reason are true but Reason is not the correct explanation of

## Assertion

C. Assertion is true, but Reason is false.

D. Both Assertion and Reason are false.

**Answer: A**



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**10. Define endemism.**



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**11.** How many hotspots are there in India?

Name them.



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**12.** What are the three levels of biodiversity?



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**13.** Name the active chemical found in the medicinal plant Ram diversity it belongs to?



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14. "Amazon forest is considered to be the lungs of the planet" - Justify this statement.



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15. "Red data book" - What do you know about it?



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**16.** Extinction of a keystone species led to loss of biodiversity. Justify.



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**17.** Compare and Contrast the insitu and exsitu conservation.



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**18.** What is an endangered species?



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**19.** Why do we find a decrease in biodiversity distribution, if we move from the tropics towards the poles?



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**20.** Why are the factors that drive habitat loss?



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**21.** Where are biodiversity hotspots normally located ? Why?



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**22.** Why is biodiversity so important and worthy of protection?



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**23.** Why do animals have greater diversification than plant diversity?



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**24.** Alien species invasion is a threat to endemic species - substantiate this statement.



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**25.** Mention the major threats to biodiversity caused by human activities.



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**26.** What is mass extinction? Will you encounter one such extinction in the near future? Enumerate the steps to be taken to prevent it.



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**27.** In north eastern states, the jhum culture is a major threat to biodiversity - substantiate



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**28.** List out the various causes for biodiversity losses.



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**29.** How can we contribute to promote biodiversity conservation?



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**30.** Stability of a community depends upon its species diversity' Justify the statement.



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**31.** Write a note on (i) Protected areas.



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## Additional Questions 1 Mark Questions

1. Who coined the term Bio-diversity?



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2. Which is not an indicc of species diversity?

A. Alpha diversity

B. Beta diversity

C. Delta diversit

D. Gamma diversity

**Answer: C**



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**3. Total number of mega biodiversity countries in the world is**

A. Twelve

B. Fifteen

C. Seventeen

D. Nineteen

**Answer: C**



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**4.** How many types of forest vegetation are seen in India?

A. Twelve

B. Fifteen

C. Seventeen

D. Nineteen

**Answer: C**



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**5. The most important pattern of biodiversity is.....**

**A. Longitudinal gradient in diversity**



B. Latitudinal gradient in diversity

C. Polar gradient diversity

D. Equatorial gradient in diversity

**Answer: B**



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**6.** Which of the following denotion is correct regarding increasing diversity?

A. Poles It Equator

B. Equator It Pole

C. Pole = Equator

D. Latitude - Longitude

**Answer: A**



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7. Select the proper sequence indicating the increasing order of biodiversity.

A. Polar, Temperate and Polar

B. Tropics, Temperate and Polar

C. Temperate, Tropic and Polar

D. Polar, Tropic and Temperate

**Answer: A**



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**8. Select the correct linear equation describing the species area relationship?**

$$A. \log C = \log S + Z \log A$$

B.  $Z \log A = \log S + \log C$

C.  $\log S = \log C + Z \log A$

D.  $\log C = \log S + Z \log A$

**Answer: C**



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9. If meat eating animals are called as carnivores, how do you call the animals that thrives mostly on fruits?



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10. Wild ass is endemic to .....

- A. Western Ghats
- B. Deccan Peninsula
- C. Himalayas
- D. Indian desert

**Answer: A**



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**11.** Which is considered as the Biogeographical Gateway of India?

- A. Himalayas
- B. Andaman & Nicobar
- C. North-East India
- D. Mumbai

**Answer: C**



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12. Species introduced deliberately in an area are referred as.....

- A. Endemic species
- B. Vulnerable specie
- C. Exotic specie
- D. Extinct species

**Answer: A**



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13. Tilapia fish is an exotic breed from ..... .

A. Mexico

B. South Africa

C. Canada

D. Central America

**Answer: B**



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**14.** Mention the correct number of biodiversity hotspots identified throughout the world.

A. 29

B. 16

C. 34

D. 46

**Answer: C**



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15. Which is not an accepted biodiversity hotspots of India?

A. Indian Himalayas

B. Western Ghats

C. Indo-Burma

D. Deccan Plateau

**Answer: D**



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**16.** A species is considered as extinct.

A. When its member is confined to a particular area

B. When its member is maintained in non-native area

C. When none of its members is alive in native area

D. When none of its members alive anywhere in the world

**Answer: D**



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**17.** The concept of Red list was noted in.

A. 1953

B. 1963

C. 1973

D. 2003

**Answer: A**



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18. Match the following

A. Tiger reserves in India (i)4

B. Hotspots in India (i)104

C. Biosphere reserves in India (i)27

D. National parks in India (i)18

**Answer: A::B::C::D**



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**19.** Statement 1: Biodiversity is the assemblage of different life form.

Statement 2: The term biodiversity was introduced by Edward Wilson.

A. Statement 1 is correct, statement 2 is incorrect

B. Statement 1 is incorrect, statement 2 is correct

C. Both the statements are correct

D. Both the statements are incorrect.

**Answer: A**



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**20.** Statement 1: India is the seventh largest country in the world in terms of area:

Statement 2: It includes ten biogeographic areas.

- A. Statement 1 is correct, statement 2 is incorrect
- B. Statement 1 is incorrect, statement 2 is correct
- C. Both the statements are correct
- D. Both the statements are incorrect.

**Answer: C**



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**21. Statement 1: Western Ghats extend from South Gujarat to Karnataka.**

**Statement 2: Wild ass is an endemic species of Western Ghats**

**A. Statement 1 is correct, statement 2 is incorrect**

**B. Statement 1 is incorrect, statement 2 is correct**

**C. Both the statements are correct**

**D. Both the statements are incorrect.**

**Answer: D**



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**22.** Statement 1: India is the seventh largest country in the world in terms of area:

Statement 2: It includes ten biogeographic areas.

A. Statement 1 is correct, statement 2 is incorrect

B. Statement 1 is incorrect, statement 2 is correct

C. Both the statements are correct

D. Both the statements are incorrect.

**Answer: C**



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**Additional Questions 2 Mark Questions**

**1. Define biodiversity.**



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**2. Who coined the term Bio-diversity?**



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**3. What is species richness ? Give example.**



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4. Enlist the factors that determine the distribution of biodiversity.



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5. List out the various causes for biodiversity losses.



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6. Name any two alien animal species introduced in India.



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7. Name any four biogeographic zones in India.



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8. What do you mean by the term co-extinction?



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**9.** List out the various causes for biodiversity losses.



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**10.** What are hotspots?



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**11.** What will be the consequences of loss of biodiversity?



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**12.** Name the four biodiversity hotspots in India.



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**13.** What does IUCN stand for?





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**14.** Define species extinction. What makes a species to become a species is considered extinct ?



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**15.** When a species is considered as locally extinct?



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**16.** State the mission of IUCN.



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**17.** What is Red list? How many categories of species are mentioned in Red list?



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**18.** Mention any four categories of species mentioned in Red data book



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**19.** How a national park can be defined?



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**20.** Name any two species that are extinct due to human activities.



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**21. Define in-situ conservation.**



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**22. What is the goal of "Project Tiger"?**



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**23.** Give the number of national parks in India.

Name any two of them in Tamil Nadu.



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**24.** State the role of Biosphere Reserve.



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**25.** Name few endangered species protected in

Arignar Anna Zoological Park.



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26. Give the names of two methods of in-situ conservation.



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## Additional Questions 3 Mark Questions

1. Name a biosphere reserve in Tamil Nadu \_\_.



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2. What are sacred groves ?



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3. What is Ex-situ conservation?



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4. Why Red list is prepared periodically?



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5. Name the types of extinctions.



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6. What are the human activities that disturb an ecosystem?



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7. Extinction of Dodo bird led to the danger of Calvaria tree - Support your answer.



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8. Give an account on slash and burn agriculture.



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**9. Impact of Industrialization on Biodiversity -**  
Comment.



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**10. What are exotic species?**



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**11. What is habitat fragmentation?**



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**12.** Write a note on the biogeographic area - the Gangetic plains.



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**13.** Compare Alpha diversity with Beta diversity.



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**14.** Define species diversity.



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15. State the principle of Stockholm declaration - 1972.



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## Additional Questions 5 Mark Questions

1. Give an account on genetic diversity and community diversity.





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2. Tropical regions are rich in biodiversity.

Why?



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



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4. Point out any 5 functional attributions of biodiversity.



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5. Name the types of extinctions.



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6. What is Ex-situ conservation?



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## Higher Order Thinking Skills Hot Questions

1. What will be the result, if the relationship between species richness and area for wide variety of taxa are plotted on a long scale?



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2. What may be the reasons for the entry of wild lives into the agricultural lands or towns?



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3. When does a species is categorized as endangered?



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4. Give any two examples for anthropogenic extinction.



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5. Mention any two species that had become extinct very recently.



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