

Conservation of Plants and Animals

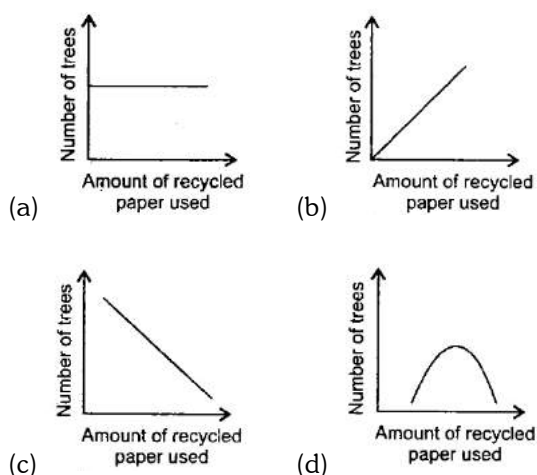
1. Which of the following is a mismatched pair?
- (a) World Conservation Union (WCU) - Maintains Red Data Book
- (b) Jim Corbett National Park, Uttarakhand - First national park established in India
- (c) Western Ghats and Eastern Himalayas - Biodiversity hotspots of India
- (d) Indian rhinoceros - An extinct animal

2. Following is the data of four species ($S_1 - S_4$) present (+) or absent (-) in five different habitats (P, Q, R, S and T).

	P	Q	R	S	T
S_1	-	-	-	+	+
S_2	+	+	+	+	-
S_3	-	-	-	-	+
S_4	+	-	+	-	+

- (a) S_1 (b) S_2
(c) S_3 (d) S_4

3. Trees take many years to reach maturity. Paper is made from wood pulp. As more people are using recycled paper, fewer trees would be cut down. Which of these graphs shows the result that would be obtained after a few years of carrying out this act of conservation?



4. Read the following statements and select the correct ones.

- (i) Hotspots are those specific regions of megabiodiversity nations which have large number of endemic species.
- (ii) The Asiatic lion (babbar sher) is endemic to Gir forests in Gujarat.
- (iii) Increase in atmospheric CO_2 concentration due to deforestation does not affect global temperature.
- (iv) Silent Valley National Park is located in the Nilgiri Hills of Tamil Nadu.

- (a) (i) and (ii) only (b) (ii) and (iii) only
(c) (i) and (iv) only (d) (i), (ii), (iii) and (iv)

5. Read the given statements and select the option which correctly fill the blanks.

- (i) ____ is the first biosphere reserve of India.
- (ii) ____ is the number and variety of plants, animals and other organisms that exist.
- (iii) Species that no longer exist anywhere on the Earth are called ____ species.
- (iv) Cutting down forest and using the land for other purpose is known as ____.

	(i)	(ii)	(iii)	(iv)
(a)	Sunderbans Biosphere Reserve	Species	Endangered	Afforestation
(b)	Nilgiri Biosphere Reserve	Biodiversity	Extinct	Deforestation
(c)	Nilgiri Biosphere Reserve	Species	Extinct	Afforestation
(d)	Sunderbans Biosphere Reserve	Biodiversity	Endangered	Deforestation

6. Some villagers were unhappy that their herds of goats were steadily decreasing in numbers. A boy said that he had seen a tiger near their village one day. So the villagers headed out to hunt and kill as many tigers as they could find. After having killed several tigers for over a year, the villagers found that the number of goats were still decreasing. There was also a sudden increase in the number of monkeys that entered their village.

The villagers had killed the wrong animal. Which of the following shows the impact of the villagers' action?

- (i) The population of the unknown predator increased.
- (ii) The tiger population went down and became endangered.
- (iii) The monkey population increased to unmanageable levels.

- (a) (i) only (b) (ii) only
- (c) (iii) only (d) (i), (ii) and (iii)

7. Pachmarhi Biosphere Reserve includes X national park and two wildlife sanctuaries - Y and Z. Select the option which correctly identify X, Y and Z.

- (a) X - Satpura; Y- Bori; Z - Pachmarhi
- (b) X - Bori; Y - Satpura; Z - Pachmarhi
- (c) X - Pachmarhi; Y - Satpura; Z - Bori
- (d) X - Tawa; Y - Bori; Z - Pachmarhi

8. Select the correct match.

- (i) Dr. Salim Ali - Grand Old Bird Man of India
- (ii) J. Vijaya - Herpetologist
- (iii) Sunderlal Bahuguna - Chipko movement

- (a) (i) and (ii) only (b) (ii) and (iii) only
- (c) (i) and (iii) only (d) (i), (ii) and (iii)

9. Project tiger was started in 1973. its aim is to create reserves in selected areas of India to increase the tiger population. Identify which of the following is not a tiger reserve.

- (a) Dudhwa National Park
- (b) Kanha National Park
- (c) Similipal National Park
- (d) Keoladeo Ghana National Park

10. The adverse effects of deforestation is/are

- (i) Reduced rainfall
- (ii) Soil erosion
- (iii) Destruction of habitat of wildlife
- (iv) Climatic changes

- (a) (ii) and (iii) only (b) (ii) only
- (c) (i), (ii) and (iii) only (d) (i), (ii), (iii) and (iv)

11. In some countries, the buying and selling of animals such as orang-utans and leatherback turtles have been banned. These animals need to be protected so that _____.

- (a) Their value can increase
- (b) Their numbers can increase
- (c) The zoos can attract more visitors
- (d) Scientists can have more animals to experiment with.

12. Which of the following groups consists of endangered and vulnerable species respectively?

- (a) Cheetah and Jaguar
- (b) Hog deer and Leopard
- (c) Red Panda and Asian elephant
- (d) Labrador duck and Blue whale

13. Select the incorrect differences between national park and sanctuary.

National Park	Sanctuary
(i) It is meant for protection of both flora and fauna.	It is meant for protection of only fauna.
(ii) Grazing is allowed.	Grazing is not allowed.
(iii) Private ownership is not permitted.	Private ownership is permitted.

- (a) (i) and (iii) only (b) (i) and (iv) only
- (c) (ii) and (iii) only (d) (ii) only

14. I was a large, heavy and flightless bird. I was hunted in large number in the island of Madagascar and now no member of my species survives. Who am I?

- (a) White-rumped vulture
- (b) Grey jungle fowl
- (c) Dodo
- (d) The great Indian bustard

15. A species which is at risk of becoming extinct in the near future is known as _____ species.

- (a) Endemic (b) Extinct
- (c) Endangered (d) Vulnerable

Achievers Section (HOTS)

16. Consider the given statements and select the option which correctly identifies true (T) and false (F) ones.

- (i) Kanha National Park is the first reserve forest of India.
(ii) Kaziranga National Park is famous for rhinoceros.
(iii) The existence of endemic species is often threatened due to the introduction of exotic species from some other geographical area.
(iv) Botanical garden is an in situ method of biodiversity conservation.

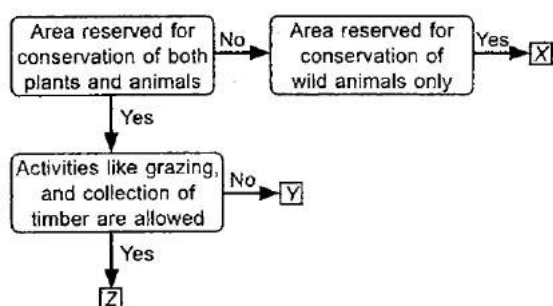
	(i)	(ii)	(iii)	(iv)
(a)	F	T	T	F
(b)	F	T	F	F
(c)	T	F	T	F
(d)	F	T	T	T

17. Study the given table regarding different species and their status. Select the correct option for P - S.

Species	Status
P	Extinct
Great Indian Bustard	Q
R	Endangered
Mandrill	S

P	Q	R	S
(a) Dodo	Vulnerable	Gaur	Critically endangered
(b) Tasmanian wolf	Critically endangered	Giant Panda	Vulnerable
(c) Steller's sea cow	Critically endangered	Asian elephant	Vulnerable
(d) Labrador duck	Vulnerable	Cheetah	Critically endangered

18. Refer to the given flowchart and identify X, Y and Z.



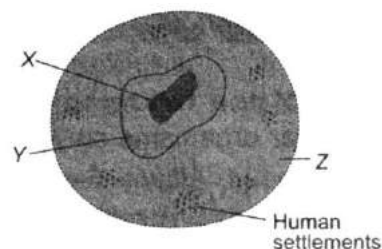
X	Y	Z
(a) Biosphere reserve	Sanctuary	National park
(b) Biosphere reserve	National park	Sanctuary
(c) Sanctuary	National park	Biosphere reserve
(d) National park	Biosphere reserve	Sanctuary

19. Select the incorrect match.

- (i) Dachigam National Park - Karnataka
(ii) Bandipur National Park - Tamil Nadu
(iii) Mehao Wildlife Sanctuary - Arunachal Pradesh
(iv) Keoladeo National Park - Rajasthan
(v) Similipal Biosphere Reserve - Odisha
(vi) Kanha National Park - Madhya Pradesh

- (a) (i) and (ii) only (b) (i), (ii) and (vi) only
(c) (ii), (iv) and (v) only (d) (ii), (iii) and (vi) only

20. Refer to the given diagrammatic representation of a Biosphere reserve.



Select the incorrect statement regarding X, Y and Z.

- (i) X is devoted to strict protection of wildlife and no human activity is allowed in this zone.
(ii) In Y, only limited human activity (compatible with conservation) is allowed.
(iii) In Z, commercial exploitation of natural resources is allowed.
(iv) Tourism is allowed upto Z zone only.
(v) Zone Y helps to maintain the lifestyle of the tribal people living in the area.
(a) (iii), (iv) and (v) only
(b) (ii), (iii) and (v) only
(c) (i), (iii) and (iv) only
(d) (ii), (iii) and (iv) only

Answer key

1. D	2. B	3. B	4. A	5. B
6. D	7. A	8. D	9. D	10. D
11. B	12. B	13. D	14. C	15. C
16. A	17. C	18. C	19. A	20. A

HINTS & EXPLANATIONS

1. (d) : Indian rhinoceros is a vulnerable animal.
2. (b) : As species S; is shown to be found in four different habitats (P, Q, R and S), this shows that it has maximum diversity.
3. (b) Not Available
4. (a) : Increase in atmospheric CO₂ concentration due to deforestation affects global temperature as it causes global warming. Silent Valley National Park is located in Kerala.
5. (b) Not Available
6. (d) Not Available
7. (a) Not Available
8. (d) Not Available
9. (d) : Keoladeo Ghana National Park is a house for migratory birds.
10. (d) Not Available
11. (b) : In some countries, the buying and selling of animals such as orangutans and leatherback turtles have been banned because these animals are required to be protected so that their numbers can increase. Otherwise, one day, they will become extinct.
12. (b) : According to IUCN Red list, Labrador duck is an extinct species. Cheetah and leopard are vulnerable species whereas Jaguar is near threatened species. Hog deer, Red panda, Asian elephant and Blue whale are endangered species.
13. (d) Not Available
14. (c) : Dodo is an extinct flightless bird that was endemic to the island of Mauritius, east of Madagascar in the Indian Ocean. It became extinct due to over-exploitation by human beings.
15. (c) Not Available
16. (a) : The first reserve forest of India is Satpura National Park. Botanical garden is an ex situ method of biodiversity conservation.
17. (c) Not Available
18. (c) Not Available
19. (a) : Dachigam National Park-Jammu and Kashmir Bandipur National Park - Karnataka
20. (a) : In the given figure, X, Y and Z represent core zone, buffer zone and transition zone of biosphere reserve respectively. No commercial exploitation of natural resources is allowed in a biosphere reserve. Tourism are allowed up to buffer zone of biosphere reserve. Transition zone helps to maintain the lifestyle of the tribal people living in the area.