

NEET BIODIVERSITY AND CONSERVATION — PATTERNS OF BIODIVERSITY (LATITUDINAL GRADIENTS, SPECIES–AREA RELATIONSHIP) — PYQS

Max. Marks: 28

Questions: 7

Section A (MCQ) — 7 questions

Q.1 Arrange the following in descending order of number of species in the Amazonian rain forest.

- A. Plants B. Birds
C. Fishes D. Invertebrates
E. Mammals

[RE-NEET (UG) 2026]

- (1) $B > A > D > C > E$ (2) $C > B > D > E > A$
(3) $D > A > C > B > E$ (4) $E > B > A > C > D$

Scan or tap for the full solution



Q.2 Tropical regions show greatest level of species richness because

- A. Tropical latitudes have remained relatively undisturbed for millions of years, hence more time was available for species diversification.
B. Tropical environments are more seasonal.
C. More solar energy is available in tropics.
D. Constant environments promote niche specialization.
E. Tropical environments are constant and predictable.

Choose the correct answer from the options given below.

[NEET (UG) 2024]

- (1) A, C, D and E only (2) A and B only
(3) A, B and E only (4) A, B and D only

Scan or tap for the full solution



Q.3 Match List I with List II

List - I		List - II	
A.	Robert May	I.	Species-Area relationship
B.	Alexander von Humboldt	II.	Long term ecosystem experiment using outdoor plots
C.	Paul Ehrlich	III.	Global species diversity at about 7 million
D.	David Tilman	IV.	Rivet popper hypothesis

Choose the correct answer from the options given below:

[NEET (UG) 2024]

- (1) A-II, B-III, C-I, D-IV (2) A-III, B-I, C-IV, D-II
(3) A-I, B-III, C-II, D-IV (4) A-III, B-IV, C-II, D-I

Scan or tap for the full solution



Q.4 Give the correct descending order of organisms with reference to their estimated number found in Amazon forest.

- A. Plants B. Invertebrates
C. Fishes D. Mammals
E. Birds

Choose the correct answer from the options given below :

[NEET (UG) 2022 (Phase 2)]

- (1) $B > A > C > E > D$ (2) $A > B > E > D > C$
(3) $A > C > D > B > E$ (4) $B > A > E > D > C$

Scan or tap for the full solution



Q.5 Frugivorous birds are found in large numbers in tropical forests mainly because of :

[NEET (UG) 2022 (Phase 2)]

- (1) Temperature conducive for their breeding
(2) Lack of niche specialisation
(3) Higher annual rainfall
(4) Availability of fruits throughout the year

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Q.6 Which of the following regions of the globe exhibits highest species diversity?

[NEET (UG) 2020]

- (1) Amazon forests
(2) Madagascar
(3) Western Ghats of India
(4) Himalayas

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Q.7 Alexander von Humboldt described for the first time :

[NEET 2017]

- (1) Laws of limiting factor
- (2) Population Growth equation
- (3) Species area relationships
- (4) Ecological Biodiversity

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7				
Ans.	3	1	2	1	4	1	3				