

## NEET ORGANISMS AND POPULATIONS — ORGANISM AND ITS ENVIRONMENT: ABIOTIC FACTORS AND RESPONSES (OLD SYLLABUS) — PYQS

Max. Marks: 64

Questions: 16

### Section A (MCQ) — 16 questions

**Q.1** Who is known as the father of Ecology in India?

[NEET (UG) 2025]

- (1) Ram Udar                      (2) Birbal Sahni  
(3) S.R. Kashyap                (4) Ramdeo Misra

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full solution



**Q.2 Assertion (A):** A person goes to high altitude and experiences 'altitude sickness' with symptoms like breathing difficulty and heart palpitations.

**Reason (R):** Due to low atmospheric pressure at high altitude, the body does not get sufficient oxygen.

In the light of the above statements, choose the correct answer from the options given below

[NEET (UG) 2021]

- (1) (A) is false but (R) is true  
(2) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(3) Both (A) and (R) are true but (R) is not the correct explanation of (A)  
(4) (A) is true but (R) is false

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**Q.3** Niche is [NEET 2018]

- (1) all the biological factors in the organism's environment  
(2) the physical space where an organism lives  
(3) the range of temperature that the organism needs to live  
(4) the functional role played by the organism where it lives

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**Q.4** Most animals are tree dwellers in a:

[AIPMT 2015 (Cancelled)]

- (1) temperate deciduous forest  
(2) tropical rain forest  
(3) coniferous forest  
(4) thorn woodland

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**Q.5** Just as a person moving from Delhi to Shimla to escape the heat for the duration of hot summer, thousands of migratory birds from Siberia and other extremely cold northern regions move to:

[AIPMT 2014]

- (1) Keoladeo National Park  
(2) Meghalaya  
(3) Corbett National Park  
(4) Western Ghat

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**Q.6** Benthic organisms are affected most by :

[NEET 2013 (Karnataka)]

- (1) Surface turbulence of water  
(2) Water-holding capacity of soil  
(3) Light reaching the forest floor  
(4) Sediment characteristics of aquatic ecosystems

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**Q.7** Consider the following statements (A)-(D) each with one or two blanks :

- (A) Bears go into \_\_\_\_ (1) \_\_\_\_ during winter to \_\_\_\_ (2) \_\_\_\_ cold weather.  
(B) A conical age pyramid with a broad base represents \_\_\_\_ (3) \_\_\_\_ human population.  
(C) A wasp pollinating a fig flower is an example of \_\_\_\_ (4) \_\_\_\_ .  
(D) An area with high levels of species richness is known as \_\_\_\_ (5) \_\_\_\_ .

Which of the following options gives the correct fill ups for the respective blank numbers from (1) to (5) in the statements ? [AIPMT 2011 (Mains)]

- (1) (1) - aestivation, (2) - escape, (3) - stable, (4) - mutualism  
 (2) (3) - expanding, (4) - commensalism, (5) - biodiversity park  
 (3) (1) - hibernation, (2) - escape, (3) - expanding, (5) - hot spot  
 (4) (3) - stable, (4) - commensalism, (5) - marsh

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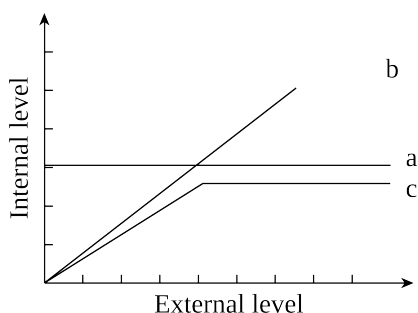
- Q.8** Large woody vines are more commonly found in  
 [AIPMT 2011 (Prelims)]  
 (1) Mangroves (2) Tropical rainforests  
 (3) Alpine forests (4) Temperate forests

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- Q.9** The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do a, b and c represent respectively –

[AIPMT 2010 (Prelims)]



- (1) (a) → partial regulator, (b) → regulator, (c) → conformer  
 (2) (a) → conformer, (b) → regulator, (c) → partial regulator  
 (3) (a) → regulator, (b) → conformer, (c) → partial regulator  
 (4) (a) → regulator, (b) → partial regulator, (c) → conformer

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- Q.10** *Quercus* species are the dominant component in:  
 [AIPMT 2008]

- (1) Temperate deciduous forests  
 (2) Alpine forests  
 (3) Scrub forests  
 (4) Tropical rain forests

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- Q.11** Annual migration does not occur in the case of  
 [AIPMT 2006]

- (1) Arctic tern (2) salmon  
 (3) Siberian crane (4) salamander

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- Q.12** More than 70% of world's fresh water is contained in –  
 [AIPMT 2005]  
 (1) Polar ice  
 (2) Greenland  
 (3) Antarctica  
 (4) Glaciers and Mountains

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- Q.13** At which latitude, heat gain through insolation approximately equals heat loss through terrestrial radiation –  
 [AIPMT 2005]

- (1) 40° North and South (2)  $42\frac{1}{2}^{\circ}$  North and South  
 (3) 66° North and South (4)  $22\frac{1}{2}^{\circ}$  North and South

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- Q.14** Which one of the following pairs is mismatched ?  
 [AIPMT 2005]

- (1) Tundra - permafrost  
 (2) Savanna - acacia trees  
 (3) Prairie - epiphytes  
 (4) Coniferous forest - evergreen trees

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- Q.15** In which of the following pairs is the specific characteristic of a soil not correctly matched ?  
 [AIPMT 2004]

- (1) Chernozems – Richest soil in the world  
 (2) Laterite – Contains aluminium compound  
 (3) Terra rossa – Most suitable for roses  
 (4) Black soil – Rich in calcium carbonate

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- Q.16** In which one of the following habitats does the diurnal temperature of soil surface vary most ?  
 [AIPMT 2004]

- (1) Grassland (2) Desert  
 (3) Shrub land (4) Forest

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**ANSWER KEY**

|              |    |    |    |    |    |   |   |   |   |    |    |
|--------------|----|----|----|----|----|---|---|---|---|----|----|
| <b>Ques.</b> | 1  | 2  | 3  | 4  | 5  | 6 | 7 | 8 | 9 | 10 | 11 |
| <b>Ans.</b>  | 4  | 2  | 4  | 2  | 1  | 4 | 3 | 2 | 3 | 1  | 4  |
| <b>Ques.</b> | 12 | 13 | 14 | 15 | 16 |   |   |   |   |    |    |
| <b>Ans.</b>  | 1  | 1  | 3  | 4  | 2  |   |   |   |   |    |    |