

NEET ORGANISMS AND POPULATIONS — ADAPTATIONS (OLD SYLLABUS) — PYQS

Max. Marks: 28
Questions: 7

Section A (MCQ) — 7 questions

Q.1 Match **List-I** with **List-II**

List-I		List-II	
a.	Allen's Rule	i.	Kangaroo rat
b.	Physiological adaptation	ii.	Desert lizard
c.	Behavioural adaptation	iii.	Marine fish at depth
d.	Biochemical adaptation	iv.	Polar seal

Choose the correct answer from the options given below. [NEET (UG) 2021]

- (1) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
 (2) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)
 (3) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)
 (4) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)

Scan or tap for the full solution


Q.2 Plants which produce characteristic pneumatophores and show vivipary belong to :

[NEET 2017]

- (1) Halophytes (2) Psammophytes
 (3) Hydrophytes (4) Mesophytes

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Q.3 It is much easier for a small animal to run uphill than for a large animal, because -

[NEET 2016 (Phase 1)]

- (1) The efficiency of muscles in large animals is less than in the small animals
 (2) Smaller animals have a higher metabolic rate
 (3) It is easier to carry a small body weight
 (4) Small animals have a lower O_2 requirement

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Q.4 People who have migrated from the plains to an area adjoining Rohtang Pass about six months back

[AIPMT 2012 (Prelims)]

- (1) have more RBCs and their haemoglobin has a lower binding affinity to O_2
 (2) are not physically fit to play games like football
 (3) suffer from altitude sickness with symptoms like nausea, fatigue, etc.
 (4) have the usual RBC count but their haemoglobin has very high binding affinity to O_2 .

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Q.5 Consider the following four conditions (a – d) and select the correct pair of them as adaptation to environment in desert lizards.

The conditions : [AIPMT 2011 (Prelims)]

- (a) burrowing in soil to escape high temperature
 (b) losing heat rapidly from the body during high temperature
 (c) bask in sun when temperature is low
 (d) insulating body due to thick fatty dermis
 (1) (c), (d) (2) (b), (d) (3) (a), (c) (4) (a), (b)

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Q.6 Reduction in vascular tissue, mechanical tissue and cuticle is characteristic of : [AIPMT 2009]

- (1) Xerophytes (2) Epiphytes
 (3) Hydrophytes (4) Mesophytes

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Q.7 Consider the following four statements (i)–(iv) about certain desert animals such as kangaroo-rat.

- (i) They have dark colour and high rate of reproduction and excrete solid urine
 (ii) They do not drink water, breathe at a slow rate to conserve water and have their body covered with thick hairs
 (iii) They feed on dry seeds and do not require drinking water
 (iv) They excrete very concentrated urine and do not use water to regulate body temperature
 Out of these four, which two are correct?

[AIPMT 2008]

(1) (i) and (ii)

(2) (ii) and (iii)

(3) (iii) and (i)

(4) (iii) and (iv)

Scan or tap for the
full solution**ANSWER KEY**

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