

NEET EVOLUTION — ADAPTIVE RADIATION — PYQS

Max. Marks: 48

Questions: 12

Section A (MCQ) — 12 questions

Q.1 Adaptive radiation in placental mammals and Australian Marsupials leading to similarity between distant species is an example of _____.

[RE-NEET (UG) 2026]

- (1) genetic drift (2) divergent evolution
(3) convergent evolution (4) founder effect

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Q.2 Which evolutionary phenomenon is depicted by the sketch given in figure? [RE-NEET (UG) 2024]



- (1) Artificial selection (2) Genetic drift
(3) Convergent evolution (4) Adaptive radiation

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Q.3 Match **List-I** with **List-II** with respect to convergent evolution:

List-I		List-II	
A.	Lemur	I.	Flying phalanger
B.	Bobcat	II.	Numbat
C.	Anteater	III.	Spotted cuscus
D.	Flying squirrels	IV.	Tasmanian tiger cat

Choose the correct answer from the options given below:

[RE-NEET (UG) 2024]

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

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Q.4 Select the correct group/set of Australian Marsupials exhibiting adaptive radiation.

[NEET (UG) 2023]

- (1) Numbat, Spotted cuscus, Flying phalanger
(2) Mole, Flying squirrel, Tasmanian tiger cat
(3) Lemur, Anteater, Wolf
(4) Tasmanian wolf, Bobcat, Marsupial mole

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Q.5 The process by which organisms with different evolutionary history evolve similar phenotypic adaptations in response to a common environmental challenge is called : [NEET 2013]

- (1) Convergent evolution (2) Adaptive radiation
(3) Natural selection (4) Non-random evolution

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Q.6 The finch species of Galapagos Islands are grouped according to their food sources. Which of the following is not a finch food ? [NEET 2013 (Karnataka)]

- (1) Insects (2) Carrion
(3) Tree buds (4) Seeds

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Q.7 Evolution of different species in a given area starting from a point and spreading to other geographical areas is known as

[AIPMT 2012 (Prelims)]

- (1) Divergent evolution (2) Natural selection
(3) Migration (4) Adaptive radiation

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Q.8 Darwin's finches are a good example of –

[AIPMT 2010 (Prelims)]

- (1) Convergent evolution (2) Connecting link
(3) Industrial melanism (4) Adaptive radiation

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Q.9 Darwin's finches are a good example of –

[AIPMT 2008]

- (1) Convergent evolution (2) Adaptive radiation
(3) Connecting link (4) Industrial melanism

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Q.10 The finches of Galapagos islands provide an evidence in favour of- [AIPMT 2007]

- (1) Special Creation
- (2) Biogeographical Evolution
- (3) Evolution due to Mutation
- (4) Retrogressive Evolution

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Q.11 Adaptive radiation refers to:- [AIPMT 2007]

- (1) Adaptations due to Geographical isolation
- (2) Migration of members of a species to different geographical areas
- (3) Evolution of different species from a common ancestor
- (4) Power of adaptation in an individual to a variety of environments

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Q.12 Which evidence of evolution related to Darwin's finches? [AIPMT 2000]

- (1) Evidences from comparative anatomy
- (2) Evidences from embryology
- (3) Evidences from biogeographical distribution
- (4) Evidences from palaeontological

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	3	4	1	1	1	2	4	4	2	2	3
Ques.	12										
Ans.	3										