

Animal Kingdom

NEET previous year questions · Biology

11 questions from the official papers: NEET 2026 (4), Re-NEET 2026 (3), NEET 2020 (4). Each is followed by its answer and a worked solution written by BrainIt. Generated on 23 October 2026.



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1. NEET 2026 · Q147

A group of researchers procured some fish like animals and upon investigation the following characters were observed: A. Endoskeleton was made of cartilage. B. Ectoparasitic; as they were found attached on fish skin with their circular sucking mouth. C. Paired fins and scales were absent, but 7 pairs of gill slits were present.

Which of the following species of animals did they consider to fit best with these characters?

- (1) *Scoliodon sp.* (2) *Petromyzon sp.*
(3) *Exocoetus sp.* (4) *Branchiostoma sp.*

Answer (2)

Sol. *Petromyzon* (lamprey) is a cyclostome with a cartilaginous endoskeleton, circular suckorial mouth, no scales or paired fins, and seven pairs of gill slits. It is ectoparasitic on fishes.

Scoliodon and *Exocoetus* are free-living fishes with paired fins, while *Branchiostoma* is a cephalochordate lacking the cyclostome-type suckorial mouth and parasitic habit.

These features identify *Petromyzon*.

2. NEET 2026 · Q153

Select the set of fishes which belong to the class Osteichthyes:

- (1) Devil fish, Cuttlefish and Hagfish
(2) Saw fish, Fighting fish and Dog fish
(3) Starfish, Hagfish and Cuttlefish
(4) Flying fish, Angel fish and Fighting fish

Answer (4)

Sol. Osteichthyes are the bony fishes. Flying fish (*Exocoetus*), angel fish (*Pterophyllum*) and fighting fish (*Betta*) are all bony fishes. The other sets include

molluscs (cuttlefish), cyclostomes (hagfish), an echinoderm (starfish) or cartilaginous fishes (saw fish, dog fish), none of which are Osteichthyes.

3. NEET 2026 · Q154

Select the incorrect statements from the following and choose the answer from the options given below.

Statement I: Digestive system in Platyhelminthes is incomplete.

Statement II: Bilateral symmetry is a characteristic feature of adult Echinoderms.

Statement III: Pseudocoelom is possessed by Aschelminthes.

Statement IV: Notochord is persistent throughout life in the class Chondrichthyes.

Statement V: Members of class Reptilia maintain a constant body temperature.

- (1) I and III only (2) II and V only
(3) III and IV only (4) II and IV only

Answer (2)

Sol. Statement II is wrong because adult echinoderms show radial symmetry (only their larvae are bilaterally symmetrical), and statement V is wrong because reptiles are poikilothermic (cold-blooded) and cannot maintain a constant body temperature. Statements I, III and IV are correct, so the incorrect pair is II and V, which is option (2).

4. NEET 2026 · Q159

Match List I with List II and choose the correct answer from the options given below.

List I	List II
P) Molluscs	I) Pulmonary respiration only
Q) Reptiles	II) Branchial respiration
R) Adult amphibians	III) Cellular respiration
S) <i>Amoeba</i>	IV) Pulmonary and cutaneous respiration

- (1) P-II, Q-I, R-IV, S-III (2) P-I, Q-II, R-IV, S-III
 (3) P-II, Q-I, R-III, S-IV (4) P-III, Q-II, R-I, S-IV

Answer (1)

Sol. Molluscs respire through gills, i.e. branchial respiration (P-II), reptiles breathe only through lungs, i.e. pulmonary respiration (Q-I), adult amphibians use both lungs and moist skin, i.e. pulmonary and cutaneous respiration (R-IV), and *Amoeba* depends on cellular respiration by simple diffusion (S-III). This matches option (1).

5. Re-NEET 2026 · Q107

Given below are two statements :

Statement I: When any plane passing through the central axis of the body divides the organism into two identical halves, it is called radial symmetry.

Statement II: In phylum Echinodermata, both adults and larvae are radially symmetrical.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (1) Both Statement I and Statement II are correct
 (2) Both Statement I and Statement II are incorrect
 (3) Statement I is correct but Statement II is incorrect
 (4) Statement I is incorrect but Statement II is correct

Answer (3)

Sol. Radial symmetry means that any plane through the central body axis divides an organism into similar halves. Adult echinoderms are radial, but their larvae are bilateral, consistent with a bilateral ancestry. Statement I is true and statement II is false.

6. Re-NEET 2026 · Q130

Given below are two statements:

Statement I: The class name Reptilia refers to creeping or crawling mode of locomotion.

Statement II: All organisms belonging to Reptilia have three chambered heart.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) Both Statement I and Statement II are correct
 (2) Both Statement I and Statement II are incorrect
 (3) Statement I is correct but Statement II is incorrect
 (4) Statement I is incorrect but Statement II is correct

Answer (3)

Sol. The class name comes from the Latin *reperere* or *reptum*, meaning to creep or crawl, so Statement I is correct. Statement II fails on a single well-known exception: CROCODILES have a four-chambered heart, while other reptiles such as lizards, snakes and turtles have three chambers. The word 'all' is what makes the statement false. NCERT Class 11, Animal Kingdom.

7. Re-NEET 2026 · Q132

Which of the following is not a characteristic of chordates?

- (1) Presence of notochord
 (2) Central nervous system is dorsal
 (3) Absence of gills
 (4) Presence of post anal part (tail)

Answer (3)

Sol. Chordates are defined by four fundamental features: a notochord, a dorsal hollow nerve cord, PAIRED PHARYNGEAL GILL SLITS and a post-anal tail. Gill slits are therefore present, not absent - even in terrestrial vertebrates they appear during embryonic development before being modified into other structures. NCERT Class 11, Animal Kingdom.

8. NEET 2020 · Q2

Bilaterally symmetrical and acoelomate animals are exemplified by

- (1) Platyhelminthes (2) Aschelminthes
 (3) Annelida (4) Ctenophora

Answer (1)

Sol. Platyhelminthes are bilaterally symmetrical and acoelomate, lacking a body cavity. Chapter: Animal Kingdom.

9. NEET 2020 · Q3

Match the following columns and select the correct option.

List I	List II
P) Gregarious, polyphagous pest	I) <i>Asterias</i>
Q) Adult with radial symmetry and larva with bilateral symmetry	II) Scorpion
R) Book lungs	III) <i>Ctenoplane</i>
S) Bioluminescence	IV) <i>Locusta</i>

- (1) P-IV, Q-I, R-II, S-III (2) P-III, Q-II, R-I, S-IV
 (3) P-II, Q-I, R-III, S-IV (4) P-I, Q-III, R-II, S-IV

Answer (1)

Sol. *Locusta* is a gregarious polyphagous pest; adult *Asterias* has radial symmetry while its larva is bilateral; scorpions have book lungs; and *Ctenoplane* is bioluminescent. Thus P-IV, Q-I, R-II, S-III.
 Chapter: Animal Kingdom.

10. NEET 2020 · Q42

Which of the following statements are true for the phylum-Chordata?

Statement I: In Urochordata notochord extends from head to tail and it is present throughout their life.

Statement II: In Vertebrata notochord is present during the embryonic period only.

Statement III: Central nervous system is dorsal and hollow.

Statement IV: Chordata is divided into 3 subphyla : Hemichordata, Tunicata and Cephalochordata.

- (1) (III) and (I) (2) (I) and (II)
 (3) (II) and (III) (4) (IV) and (III)

Answer (3)

Sol. Statement I is false because urochordates retain the notochord only in the larval tail. Statement IV is false because Hemichordata is not a chordate subphylum. Statements (II) and (III) are true. Chapter: Animal Kingdom.

11. NEET 2020 · Q64

Match the following columns and select the correct option.

List I	List II
P) 6-15 pairs of gill slits	I) <i>Trygon</i>
Q) Heterocercal caudal fin	II) Cyclostomes
R) Air bladder	III) Chondrichthyes
S) Poison sting	IV) Osteichthyes

- (1) P-III, Q-IV, R-I, S-II (2) P-IV, Q-II, R-III, S-I
 (3) P-I, Q-IV, R-III, S-II (4) P-II, Q-III, R-IV, S-I

Answer (4)

Sol. Cyclostomes have 6-15 pairs of gill slits; Chondrichthyes have a heterocercal caudal fin; Osteichthyes generally have an air bladder; and *Trygon* bears a poison sting. Thus P-II, Q-III, R-IV, S-I. Chapter: Animal Kingdom.

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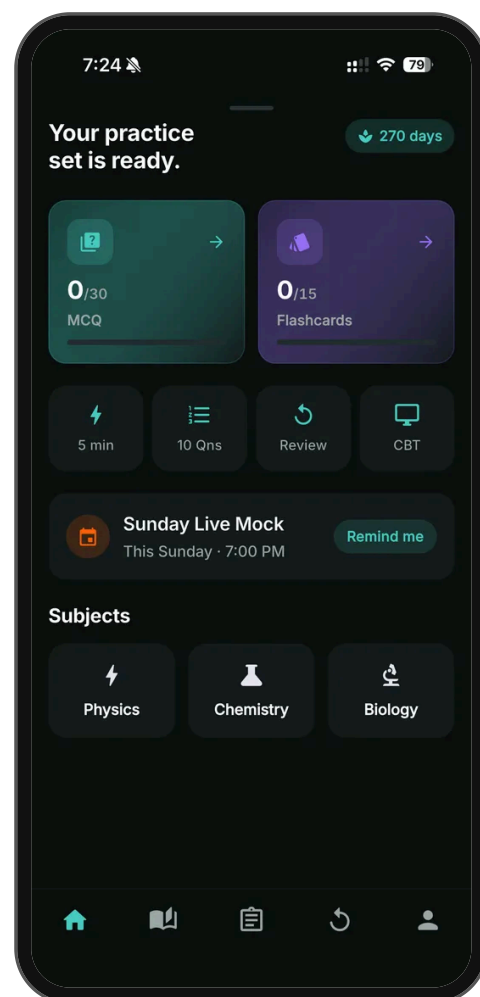
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