

NEET ANIMAL KINGDOM — PHYLUM ARTHROPODA — PYQS

Max. Marks: 72

Questions: 18

Section A (MCQ) — 18 questions

Q.1 Exoskeleton of arthropods is composed of:

[NEET (UG) 2022]

- | | |
|------------|-----------------|
| (1) Cutin | (2) Cellulose |
| (3) Chitin | (4) Glucosamine |

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Q.2 Match the following :

List-I		List-II	
a.	<i>Physalia</i>	i.	Pearl oyster
b.	<i>Limulus</i>	ii.	Portuguese Man of War
c.	<i>Ancylostoma</i>	iii.	Living fossil
d.	<i>Pinctada</i>	iv.	Hookworm

Choose the correct answer from the options given below.

[NEET (UG) 2021]

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

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Q.3 Which one of the following belongs to the family Muscidae?

[NEET (UG) 2021]

- | | |
|-----------------|---------------|
| (1) House fly | (2) Fire fly |
| (3) Grasshopper | (4) Cockroach |

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Q.4 Match the following columns and select the correct option :

[NEET (UG) 2020]

Column-I		Column-II	
a.	Gregarious, polyphagous pest	i.	<i>Asterias</i>
b.	Adult with radial symmetry and larva with bilateral symmetry	ii.	Scorpion
c.	Book lungs	iii.	<i>Ctenoplana</i>
d.	Bioluminescence	iv.	<i>Locusta</i>

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

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Q.5 Which of the following features is not present in the Phylum Arthropoda?

[NEET 2016 (Phase 1)]

- (1) Parapodia
 (2) Jointed appendages
 (3) Chitinous exoskeleton
 (4) Metameric segmentation

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Q.6 Which of the following features is not present in *Periplaneta americana*?

[NEET 2016 (Phase 1)]

- (1) Indeterminate and radial cleavage during embryonic development
 (2) Schizocoelom as body cavity
 (3) Metamerically segmented body
 (4) Exoskeleton composed of N-acetylglucosamine

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Q.7 Which of the following characteristics is mainly responsible for diversification of insects on land?

[AIPMT 2015 (Cancelled)]

- | | |
|------------------|------------------------|
| (1) Exoskeleton | (2) Eyes |
| (3) Segmentation | (4) Bilateral symmetry |

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Q.8 Which of the following are correctly matched with respect to their taxonomic classification?

[NEET 2013]

- (1) House fly, butterfly, tsetse fly, silverfish – Insecta
 (2) Spiny anteater, sea urchin, sea cucumber – Echinodermata
 (3) Flying fish, cuttlefish, silverfish – Pisces
 (4) Centipede, millipede, spider, scorpion – Insecta

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Q.9 Which group of animals belong to the same phylum?

[NEET 2013]

- (1) Prawn, Scorpion, *Locusta*
 (2) Sponge, Sea anemone, Starfish
 (3) Malarial parasite, *Amoeba*, Mosquito
 (4) Earthworm, Pinworm, Tapeworm

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full solution



Q.10 One of the representatives of Phylum Arthropoda is
 [NEET 2013]

- (1) puffer fish (2) flying fish
 (3) cuttle fish (4) silver fish.

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Q.11 *Peripatus* is a connecting link between:
 [AIPMT 2009]

- (1) Ctenophora and Platyhelminthes
 (2) Mollusca and Echinodermata
 (3) Coelenterata and Porifera
 (4) Annelida and Arthropoda

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full solution



Q.12 Which one of the following phyla is correctly
 matched with its two general characteristics?
 [AIPMT 2008]

- (1) Echinodermata - pentamerous radial symmetry
 and mostly internal fertilization
 (2) Mollusca - normally oviparous and
 development through a trochophore or veliger
 larva
 (3) Arthropoda - body divided into head, thorax and
 abdomen and respiration by tracheae
 (4) Chordata - notochord at some stage and separate
 anal and urinary openings to the outside

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full solution



Q.13 What is true about *Nereis*, scorpion, cockroach and
 silverfish?
 [AIPMT 2007]

- (1) They all possess dorsal heart.
 (2) None of them is aquatic.
 (3) They all belong to the same phylum.
 (4) They all have jointed paired appendages.

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full solution



Q.14 Two common characters found in centipede,
 cockroach, and crab are
 [AIPMT 2006]

- (1) book lungs and antennae
 (2) compound eyes and anal cerci
 (3) jointed legs and chitinous exoskeleton
 (4) green gland and tracheae

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full solution



Q.15 Which one of the following has an open circulatory
 system?
 [AIPMT 2006]

- (1) *Octopus* (2) *Pheretima*
 (3) *Periplaneta* (4) *Hirudinaria*

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Q.16 From the following statements select the wrong one
 [AIPMT 2005]

- (1) Prawn has two pairs of antennae.
 (2) Nematocysts are characteristic of the phylum
 Cnidaria.
 (3) Millipedes have two pairs of appendages in each
 segment of the body.
 (4) Animals belonging to phylum Porifera are
 marine and fresh water.

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Q.17 In Arthropoda, head and thorax are often fused to
 form cephalothorax, but in which one of the
 following classes, is the body divided into head,
 thorax and abdomen?
 [AIPMT 2004]

- (1) Insecta
 (2) Myriapoda
 (3) Crustacea
 (4) Arachnida and Crustacea

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Q.18 Which one of the following is a matching pair of an
 animal and a certain phenomenon it exhibits?
 [AIPMT 2003]

- (1) *Pheretima* – Sexual dimorphism
 (2) *Musca* – Complete metamorphosis
 (3) Chameleon – Mimicry
 (4) *Taenia* – Polymorphism

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full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	3	4	1	1	1	1	1	1	1	4	4
Ques.	12	13	14	15	16	17	18				
Ans.	3	1	3	3	1	1	2				