

NEET BREATHING AND EXCHANGE OF GASES — RESPIRATORY ORGANS IN ANIMALS, HUMAN RESPIRATORY SYSTEM — PYQS

Max. Marks: 28

Questions: 7

Section A (MCQ) — 7 questions

Q.1 Match **List I** with **List II** : [NEET (UG) 2026]

List-I		List-II	
A.	Molluscs	I.	Pulmonary respiration only
B.	Reptiles	II.	Branchial respiration
C.	Adult amphibians	III.	Cellular respiration
D.	Amoeba	IV.	Pulmonary and cutaneous respiration

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

 Scan or tap for the full solution 
Q.2 In humans, respiration occurs in the following steps. Arrange these steps in the correct order.

- Diffusion of O_2 and CO_2 between blood and tissues
- Diffusion of O_2 and CO_2 across alveolar membrane
- Pulmonary ventilation by which atmospheric air is drawn in and CO_2 rich alveolar air is released out
- Cellular respiration
- Transport of gases by the blood

Choose the correct answer from the options given below :

[NEET (UG) 2026]

- (1) A, B, C, D, E (2) C, A, B, E, D
 (3) C, B, E, A, D (4) E, A, C, D, B

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Q.3 Sponges exchange O_2 with CO_2 by _____.

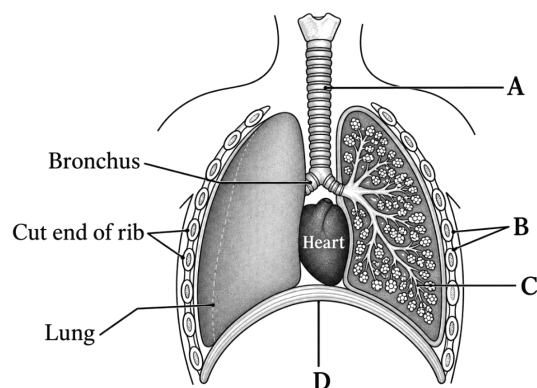
[RE-NEET (UG) 2026]

- gills
- simple diffusion over their entire body surfaces
- moist cuticle
- tracheal tubes

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Q.4 Which of the following is not the function of conducting part of respiratory system?

[NEET (UG) 2022]

- It clears inhaled air from foreign particles
- Inhaled air is humidified
- Temperature of inhaled air is brought to body temperature
- Provides surface for diffusion of O_2 and CO_2

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Q.5 The figure shows a diagrammatic view of human respiratory system with labels A, B, C and D. Select the option which gives correct identification and main function and / or characteristic. [NEET 2013]


- A - Trachea - Long tube supported by complete cartilaginous rings for conducting inspired air.
- C - Alveoli - Thin walled vascular bag like structures for exchange of gases.
- B - Pleural membrane - Surround ribs on both sides to provide cushion against rubbing.
- D - Lower end of lungs - Diaphragm pulls it down during inspiration.

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Q.6 Which one of the following statements is incorrect?

[AIPMT 2006]

- (1) The principle of countercurrent flow facilitates efficient respiration in gills of fishes.
- (2) The residual air in lungs slightly decreases the efficiency of respiration in mammals.
- (3) The presence of non-respiratory air sacs increases the efficiency of respiration in birds.
- (4) In insects, circulating body fluids serve to distribute oxygen to tissues.

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Q.7 Given below are four matchings of an animal and its kind of respiratory organ:

- A. Silver fish – Trachea
- B. Scorpion – Book lung
- C. Sea squirt – Pharyngeal slits
- D. Dolphin – Skin

The correct matchings are [AIPMT 2003]

- (1) (A) and (B)
- (2) (A), (B) and (C)
- (3) (B) and (D)
- (4) (C) and (D).

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ANSWER KEY

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