

Yakeen NEET 2.0 2026

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Breathing and Exchange of Gases

DPP: 1

- Q1** Which gas is utilised by the organisms to indirectly break down simple molecules like glucose, amino acids, fatty acids, etc?
 (A) Nitrogen
 (B) Oxygen
 (C) Carbon dioxide
 (D) None of the above
- Q2** Which harmful gas is released during break down of simple molecules like glucose, amino acids, fatty acids, etc?
 (A) Oxygen
 (B) Nitrogen
 (C) Carbon dioxide
 (D) Sulphur dioxide
- Q3** During the respiration process..... has to be continuously provided to the cells and..... produced by the cells have to be released out
 (A) Oxygen, Nitrogen
 (B) Nitrogen, Sulphur
 (C) Oxygen, Carbon dioxide
 (D) Nitrogen, Carbon dioxide
- Q4** The process of exchange of O_2 from the atmosphere with CO_2 produced by the cells is called
 (A) Breathing (B) Inspiration
 (C) Respiration (D) Expiration
- Q5** Arrange the given steps of respiration in the sequence of event they occur:
 I. Diffusion of gases O_2 and CO_2 across the alveolar membrane
 II. Transport of gases by the blood
 III. Utilisation of O_2 by the cells for catabolic reactions and the resultant release of CO_2
 IV. Pulmonary ventilation by which atmospheric air is drawn in and CO_2 rich alveolar air is released out
 V. Diffusion of O_2 and CO_2 between the blood and tissue
 Choose the **correct** option.
 (A) $IV \rightarrow I \rightarrow II \rightarrow V \rightarrow III$
 (B) $III \rightarrow II \rightarrow V \rightarrow I \rightarrow IV$
 (C) $V \rightarrow IV \rightarrow III \rightarrow II \rightarrow I$
 (D) All of these
- Q6** The respiratory organs varies in different animals due to their:
 (A) nutrition.
 (B) habitat and level of organisation.
 (C) excretion.
 (D) reproduction.
- Q7** Which of the following are the respiratory organs of insects?
 (A) Trachea (B) Gills
 (C) Cuticle (D) Lungs
- Q8** Which animal among the following respire via buccal cavity, moist skin and lungs?
 (A) Hydra (B) Frog
 (C) Sycon (D) Earthworm
- Q9** Which of the following has no specialised respiratory structures?
 (A) Crab (B) Earthworm



(C) Salmon (D) Ant

Q10 The respiratory organs used in pulmonary respiration is

- (A) Gills (B) Lungs
(C) Cuticle (D) Tracheal tubes

Q11 The respiratory organs used in branchial respiration

- (A) Lungs (B) Spiracle
(C) Gills (D) Skin

Q12 Cutaneous respiration takes place through:

- (A) gills. (B) lungs.
(C) spiracle. (D) skin.

Q13 Which of the following animals used their moist cuticle for gaseous exchange?

- (A) Prawn (B) *Amoeba*
(C) Earthworm (D) *Limulus*

Q14 The network of air tube in insects for gaseous exchange is called as

- (A) Trachea (B) Spiracles
(C) Stomata (D) Skin

Q15 Which of the following organisms use vascularised bags for exchange of gases?

- (A) Terrestrial organisms
(B) Aquatic organisms
(C) Both (A) & B
(D) None of the above

Q16

Among vertebrates, fishes use_____ whereas amphibians, reptiles, birds and mammals respire through_____

- (A) Skin, Lungs
(B) Gills, Cuticle
(C) Gills, Lungs
(D) Gills, Spiracle

Q17 Which of the following animals can respire through moist skin?

- (A) Cockroach
(B) Frogs
(C) Crabs
(D) Both (A) & (B)

Q18 Match List-I with List-II:

	List-I (Animals)		List-II (Respiratory organs)
(A)	Earthworm	(I)	Moist cuticle
(B)	Aquatic arthropods	(II)	Gills
(C)	Cockroach	(III)	Lungs
(D)	Birds/Reptiles	(IV)	Trachea

Choose the **correct** answer from the options given below:

- (A) A-II, B-I, C-IV, D-III
(B) A-I, B-IV, C-II, D-III
(C) A-I, B-II, C-IV, D-III
(D) A-I, B-II, C-III, D-IV



Answer Key

Q1 (B)

Q2 (C)

Q3 (C)

Q4 (A)

Q5 (A)

Q6 (B)

Q7 (A)

Q8 (B)

Q9 (B)

Q10 (B)

Q11 (C)

Q12 (D)

Q13 (C)

Q14 (A)

Q15 (A)

Q16 (C)

Q17 (B)

Q18 (C)



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