

Class : XIth

Subject : Biology

Date :

DPP No. :9

Topic :-Breathing and Exchange of Gases

- Under normal conditions, what amount of O₂ is delivered by 100 mL of the oxygenated blood?
a) 5 mL b) 4 mL c) 3 mL d) 2 mL
- ρCO₂ is higher in tissues due to
a) Anabolism b) Catabolism
c) Building up of carbohydrates d) Building up of proteins
- During inspiration, the diaphragm
a) Expands b) Shows no change
c) Contracts and flattens d) Relaxes to become dome-shaped
- During expiration, the diaphragm becomes
a) Normal b) Flattened c) Dome-shaped d) Oblique
- Severe Acute Respiratory Syndrome (SARS)
a) Is caused by a variant of *Pneumococcus pneumoniae*
b) Is caused by a variant of the common cold virus (corona virus)
c) Is an acute form of asthma
d) Affects non-vegetarians much faster than vegetarians
- About 1200 mL of air is always known to remain inside the human lungs. It is described as
a) Inspiratory reserve volume b) Expiratory reserve volume
c) Residual volume d) Tidal volume
- Respiratory centre is present in
a) Cerebellum b) Cerebrum c) Medulla oblongata d) Hypothalamus
- Exchange of gases in man takes place in
a) Trachea b) Bronchus c) Alveoli d) All of these
- Which one of the following statements is incorrect?
a) The residual air in lungs slightly decreases the efficiency of respiration in mammals
b) The presence of non-respiratory air sacs, increases the efficiency of respiration in birds
c) In insects, circulating body fluids serve to distribute oxygen to tissues
d) The principle of countercurrent flow facilitates efficient respiration in gills of fishes

18. Partial pressure of the gas is the pressure contributed by
- a) All gases in a mixture
 - b) Individual gas in a mixture
 - c) Pressure exerted by atmosphere on gases
 - d) Atmosphere on O₂ only
19. Which of the following structure is present inside the larynx of the respiratory system?
- a) Glottis
 - b) Epiglottis
 - c) Vocal cords
 - d) None of these
20. Which of the following respiratory organs are present in spiders and scorpions?
- a) Book lungs
 - b) Gills
 - c) Gill books
 - d) Lungs

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