

Daily Practice Problems

NEET BIOLOGY

Topic: Breathing and Exchange of Gases.

- 1. A difficulty in breathing causing wheezing due to inflammation of bronchi & bronchioles are symptoms of
 - (a) Emphysema (b) Asthma
 - (c) Cystic fibrosis (d) Fibrosis

2. A chronic disorder in which alveolar walls are damaged and respiratory surface is decreased is :-

(a)	Emphysema	(b) Asthma
(c)	Pneumonia	(d) Asbestosis

- 3. Receptor associated with aortic arch and carotid artery recognise change in :-
 - (a) $CO_2 \& H^+$ (b) $H^+ \& O_2$ (c) $O_2 \& CO_2$ (d) $O_2 \& BPG$

4. How much amount of O₂ is carried by haemoglobin as carbamino - haemoglobin?

(a) 70%
(b) 7%
(c) 20 to 25%
(d) 3%

5. How much amount of CO₂ is delivered by every 100ml of oxygenated blood?

- (a) 10 ml (b) 5 ml
- (c) 15 ml (d) 20 ml
- 6. About 97% of O_2 is transported by :-
 - (a) RBCs(b) WBCs(c) Platelets(d) Neutrophils
 - www.aggarwaleducare.com

Reg.Office : A - 14, Ground Floor, Amrita Sadan, Sector - 22, Nerul (W), Navi Mumbai - 400706.

- 7. The maximum volume of air a person can breathe in after a forced expiration is equal to the sum of :-
 - (a) RV + ERV + TV + IRV (b) Vital capacity + residual volume
 - (c) ERV + TV + IRV (d) ERV + RV

8. Volume of air remain in the lungs even after a forcible expiration is

(a) TV
 (b) RV
 (c) ERV
 (d) IRV

9. Additional volume of air, a person can expire by a forcible expiration is :-

(a) ERV
 (b) IRV
 (c) TV
 (d) VC

10. In case of insects, exchange of gases occurs through:-

(a) Malpighian tubules(b) Tracheal system(c) Coxal gland(d) Book lungs

11. In a healthy person breathing rate is :-

- (a) 20 25 times/minute
 (b) 20 30 times/min.
 (c) 12 16 times/minute
 (d) 70 72 times/min
- 12. How much air a healthy person can inspire or expire per minute ?

(a) 500 ml	(b) 1100 ml
(c) 3000 ml	(d) 6000 – 8000 ml

13. Partial pressure of O₂ in oxygenated blood is :-

- (a) 104 mmHg (b) 159 mmHg
- (c) 95 mmHg (d) 40 mmHg

14. The solubility of CO_2 is how much times higher than O_2 ?

- (a) 15-20 (b) 20-25
- (c) 30-35 (d) 2-5
- 15. Relaxation of the diaphragm and the inter-costal muscles help in :-
 - (a) Reduction in thoracic volume
 - (b) Increase in intra-pulmonary pressure
 - (c) Decrease in intra-pulmonary pressure
 - (d) Both (a) and (b)

16. The volume of air involved in breathing movements can be estimated by using :-

- (a) Spirometer (b) Aspirator
- (c) Artificial lung machine (d) Sphygmomanometer
- 17. The contraction of diaphragm increase volume of thoracic chamber in :-
 - (a) Dorso ventral axis (b) Antero-posterior axis
 - (c) Diagonal axis (d) Lateral sides
- 18. Respiratory centre of brain is stimulated by:
 - (a) CO₂ content of venous blood (b) CO₂ content of arterial blood
 - (c) O₂ content of venous blood (d) O₂ content of arterial blood

19. Carbon dioxide entering the erythrocytes reacts with water to form carbonic acid. The enzyme is:

(a) Carbonic anhydrase	(b) Carboxy peptidase				
(c) Hydrolase	(d) Oxido-reductase				

20. Which vertebral organ receives only oxygenated blood?

(a) Gill	(b) Lung
(c) Spleen	(d) Liver

www.aggarwaleducare.com

Reg.Office : A - 14, Ground Floor, Amrita Sadan, Sector - 22, Nerul (W), Navi Mumbai - 400706.

21. Arytenoid cartilage occurs in:

(a) Nose	(b) Larynx
(c) Hyoid	(d) Sternum

22. Bicarbonate ion is produced inside:

(a) Lymphocytes	(b) Erythrocytes			
(c) Neutrophils	(d) Basophils			

23. Amount of oxygen absorbed by one gram of haemoglobin is:

(a) 1.34 ml	(b) 13.4 ml
(c) 20 ml	(d) 134 ml

24. Vital capacity of lung is equal to:

(a) IRV + ERV + TV	(b) IRV + ERV + TV – RV
(c) IRV + ERV + TV + RV	(d) IRV + ERV

25. Maximum amount of air that can be expired per minute at rest is: (a) 5000ml
(b) 6000- 8000 ml

(c) 4800ml (d) 5200ml

26. Contraction of external intercostals muscles of the ribs pull the ribs:

(a) Downward and outward	(b) Upward and inward
(c) Upward and outward	(d) Upward and downward

27. Carbon monoxide present in Tobacco smoke:

- (a) Is carcinogenic
- (b) Causes gastric ulcers
- (c) Reduces O₂ carrying capacity of blood
- (d) Raises blood pressure

www.aggarwaleducare.com

Reg.Office : A - 14, Ground Floor, Amrita Sadan, Sector - 22, Nerul (W), Navi Mumbai - 400706.

- 28. Which of the following is correct regarding respiration?
 - (a) No organism can live without respiration
 - (b) It takes place at every time day night
 - (c) It involves production of CO₂ and water
 - (d) All of these
- 29. Pseudostratified epithelium is found in:
 - (a) Oesophagus (c) Urinary tract
 - (b) Respiratory tract (d) Kidneys
- 30. Partial pressure below arterial PO₂ causes:
 - (a) Formation of bicarbonates
 - (c) Production of carbonic acid
- (b) Formation of carbaminohaemoglobin
- (d) Release of CO_2 from the cell.

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	b	а	a	с	b	а	с	b	а	b
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	С	d	с	b	d	а	b	b	а	с
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	b	b	а	а	b	С	С	d	b	d