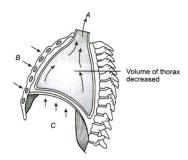


Subject : BIOLOGY Class: XIth

DPP No.: 5 Date:

	Topic :- B	reathing and	d Exchange of	Gases
1.	Blood is a medium to transport O_2 and CO_2 . AboutA per cent of O_2 is transported byB			
	in the blood and the remaining C per cent of O_2 is carried in a dissolved state through the			
	D			
	Select the right options for A, B, C and D to the complete the given statement			
	a) A-50, B-RBC, C-50, D-plasma		b) A-97, B-RBC, C-3, D-plasma	
	c) A-90, B-RBC, C-10, D-plasma		d) A-80, B-RBC, C-20, D-plasma	
2.	Name the artery which carries deoxygenated blood			
	a) Pulmonary artery b) P		c) Systemic artery	d) Vena cava
3.	Receptors associated with the aortic arch and carotid artery can recognize the changes inA			
	and H ⁺ concentration and s <mark>end n</mark> ecessa <mark>ry sig</mark> nals to theB for remedial actions			
	Select the right choice for A and B to complete the given NCERT statement			
	a) A-OH ⁻ ; B-rhythm centre		b) A-O ₂ ; B-rhythm cent	
	c) A-CO ₂ ; B-rhythm centre		d) A-blood circulation;	B-rhythm
4	The factor which does not a <mark>ffect</mark> the rate of alveolar diffusion is			
	a) Solubility of gases		b) Thickness of the membranes	
	c) Pressure gradient		d) Reactivity of the gases	
5.	How much amount of air can be inspired or expired during normal breathing?			
	a) 0.5L b) 2	5L	c) 1.5L	d) 5.5L
6	The partial pressure of $CO_2(pCO_2)$ is the highest in			
	a) Trachea b) Alveoli		c) Tissues	d) Bronchi
7.	Dissociation of CO_2 from carbamino haemoglobin takes place when			
	a) $ ho \text{CO}_2$ is less in alveoli and $ ho \text{O}_2$ is high		b) $ ho CO_2$ is low and $ ho O_2$ is high in alveoli	
	c) ρCO_2 is equal to ρO_2 in lungs, <i>i.e.</i> , low		d) $ ho ext{CO}_2$ is equal to $ ho ext{O}_2$ in tissue, <i>i.e.</i> , high	
8.	Pneumotaxic centre of the brain can			
	a) Moderate the function of respiratory system		b) Decrease the heart rate	
	c) Increase the heart rate		d) Increase the flow of blood	
9.	In the given diagram, what	A,B and C depicts?		



- a) A-Air goes inside to lungs, B-Ribs and sternum returned to original, position, C-Diaphragm contracted
- b) A-Air expelled from lungs, B-Ribs and sternum returned to original position, C-Diaphragm relaxed and arched upward
- c) A-Air expelled from lungs, B-Ribs and sternum goes upward, C-Diaphragm relaxed and arched upward
- d) A-Air goes inside to lungs, B-Ribs and sternum goes upward, C-Diaphragm relaxed and arched upward
- 10. Effect of 2-3 DPG on the human blood is that
 - a) It increases the affinity of O_2 to haemoglobin b) It decreases the affinity of O_2 to haemoglobin
 - c) It increases in the blood in plane areas d) None of the above
- 11. Two friends are eating together on a dining table. One of them suddenly starts coughing while swallowing some food. This coughing would have been due to improper movement of
 - a) Diaphragm b) Neck c) Tongue d) Epiglottis
- 12. The thoracic chamber is for<mark>med dorsally by</mark> the ...A..., ventrally by the ...B..., laterally by the ...C... and on lower side by the dome-shaped ...D...

Select the right choices for A, B, C and D to complete the given NCERT statement

- a) A-vertebral column, B-sternum, C-ribs, D-diaphragm
- b) A-vertebral column, B-ribs, C-sternum, D-diaphragm
- c) A-diaphragm, B-ribs, C-sternum, D-vertebral column
- d) A-ribs, B-diaphragm, C-sternum, D-vertebral column
- 13. Which structure of the lungs is directly involved in O_2/CO_2 exchange between air and blood capillary?
 - a) Bronchi b) Trachea c) Alveoli d) Secondary bronchi
- 14. If the level of carboxyhaemoglobin in blood reaches upto....., the functioning of central nervous system is severely affected which results in death.
 - a) 1 to 2%
- b) 0.20 to 0.30%
- c) 0.30 to 0.40%
- d) 0.1 to 5%
- 15. When the body is rapidly oxidizing fat, excessive ketone bodies gets accumulated in the body, resulting in the formation of
 - a) Pyruvic acid
- b) Lactic acid
- c) Ketoacidosis
- d) ATP
- 16. Which portion of the human respiratory system is called sound box?
 - a) Larynx
- b) Trachea
- c) Nasopharynx
- d) Glottis
- 17. Binding of O₂ with haemoglobin is primarily depended upon
 - I. partial pressure of O₂
 - II. partial pressure of CO₂

III. hydrogen ion concentration

IV. temperature

Choose the correct option

- a) I, II and IV
- b) II, III and IV
- c) I, III and IV
- d) All of these

18. Disease aggravated by pollution is

- a) Haemophilia
- b) Rheumatism
- c) Scurvy
- d) Bronchitis

19. In humans, right lung is divided into ...A... lobes and left lung is divided into ...B... lobes. Choose the correct option for A and B to complete the given statement

- a) A-3; B-2
- b) A-2; B-3
- c) A-2; B-2
- d) A-3; B-4

20. Which vein contains the oxygenated blood in humans?

a) Cardiac vein

b) Hepato pancreatic vein

c) Portal vein

d) Pulmonary vein

