EXE	RCISE-I (Conceptual Questions)	Bui	d Up Your Understanding				
	ANA	ГОМУ					
1.	The function of tracheal cilia is to (1) Pass mucus out (2) Pass mucus in	(3) Pass air out	(4) Pass air in				
2.	Which of the following prevents collapsing(1) Muscles(2) Diaphragm	of Trachea (3) Ribs	(4) Cartilaginuous rings				
3.	Simplest respiratory organ is : (1) gills (3) skin	(2) contractile vacuol(4) lungs	le				
4.	Tracheal rings are : (1) Complete (3) Dorsally incomplete	(2) Incomplete (4) Lateral incomplet	e				
5.	Which one of the following has the smalles (1) Right primary bronchus (3) Trachea	st diameter? (2) Secondary bronchi (4) Respiratory bronchioles					
6.	Column-IColumn(a)Larynx(p)(b)Trachea(q)(c)Alveoli(r)Voice Box(d)Epiglottis(s)(d)Epiglottis(s)(1)a-r, b-s, c-q, d-p(3)a-r, b-s, c-q, d-t	tis					
7.	Adam's Apple represents (1) Arytenoid cartilage of larynx (3) Thyroid cartilage of larynx	(2) Cricoid cartilage of larynx(4) All the above					
8.	During hibernation period, frog's respiratio (1) cutaneous (2) pulmonary	n is :- (3) pharyngeal	(4) buccopharyngeal				
9.	Which part of thyroid cartilage in larynx is(1) Dorsal(2) Ventral	closed (3) Anterior	(4) Posterior				
10.	Inflammation of the lung covering causing (1) Emphysema (2) Pleurisy	severe chest pain is (3) Asphyxia	(4)Hypoxia				
11.	Which of the following is not a part of resp (1) Nasal chamber (2) Oesophagus	iratory tract (3) Pharynx	(4) Trachea				

12.										
12.	Residual air mos (1) Alveoli	stly occurs in (2) Bronchus	(3) Nostrils	(4) Trachea						
13.	The epithelium of respiratory bronchioles is :(1) Pseudostratified colummar(2) Simple squamous(3) Pseudostratified and sensory(4) Cuboidal and columnar									
14.	"Epiglottis" is made up by :(1) Elastic cartilage(2) Fibrous cartilage(3) Hyaline cartilage(4) Bony structure									
15.	 Air is breathed through (1) Trachea → lungs → larynx → pharynx → alveoli (2) Nose → larynx → pharynx → bronchus → alveoli → bronchioles (3) Nostrils → pharynx → larynx → trachea → bronchi → bronchioles → alveoli (4) Nose → trachea → larynx → bronchi → pharynx → alveoli 									
16.	Lungs are cover (1) Perichondriu	•	(<mark>3) Pericar</mark> dium	(4) Peristomium						
17.	Which of the fol (1) Alveolar duc (3) Segmental be	t	the part of <mark>Respiratory</mark> tr (2) Atria (4) Respiratory bro							
		BREATHING AND	PULMONARY VOLU	IMES						
18.	-	The most important muscular structure in respiratory system of human is(1) External intercostal muscles(2) Internal intercostal muscles								
19.	 Which one of the following statement is correct? (1) Chest expands because air enters into the lungs (2) Air enters into the lungs because chest expands (3) The muscles of the diaphragm contracts because air enters into the lungs (4) All of the above statements are correct 									
20.	Among mammals, the efficiency of ventilation of lungs as compared to reptiles and birds is better developed by the presence of									
	(1) Ribs & costa(3) Only costal r		(2) Only ribs (4) Diaphragm							
21.	After deep inspiration, capacity of maximum expiration of lung is called :-(1) Total lung capacity(2) Functional residual capacity(3) Vital capacity(4) Inspiratory capacity									
	 Which statement is correct ? (1) Pulmonary ventilation is equal to alveolar ventilation. (2) Pulmonary ventilation is less than alveolar ventilation. (3) Alveolar ventilation is more than Pulmonary ventilation. 									

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(4) Alveolar ventilation is less than Pulmonary ventilation. 23. About 1500 ml of air left in lungs is called (1) Tidal volume (2) Inspiratory reserve volume (3) Residual volume (4) Vital capacity 24. At high altitude, RBC of human blood will (1) increase in number (2) Decrease in number (3) Decrease in size (4) Increase in size 25. Which one has the lowest value (1) Tidal volume (2) Vital capacity (4) Expiratory reserve volume (3) Inspiratory reserve volume 26. Volume of air inspired or expired with each normal breath is known as (1) Inspiratory capacity (2) Total lung capacity (3) Tidal volume (4) Residual volume 27. Total lung capacity is (1) One lit (3) 6 lit (4) 8 lit (2) 3 lit 28. Air that remains in lung after most powerful expiration is (1) Inspiratory air (2) Dead space air (3) Tidal air (4) Residual air 29. During normal respiration without any effort the volume of air inspired or expired is called -(1) Tidal volume (2) Reserve volume (3) Residual volume (4) None of these 30. Total lung capacity is :-(1) total volume of air accommodated in lungs at the end of forced inspiration (2) RV + ERV + TV + IRV(3) vital capacity + residual volume (4) All of the above 31. Which instrument helps in clinical assessment of pulmonary Volumes? (2) Stethoscope (1) Sphygmomanometer (3) Spirometer (4) Electrocardiograph 32. Volume of air remains in the lungs after normal expiration is (1) ERV + RV(2) IRV + RV(3) RV + IRV + ERV(4) TV 33. Which of the following volume is not included in vital capacity (1) ERV (2) TV (3) IRV (4) RV

GASEPIS EXCHANGE

34. In lungs, air is separated from venous blood by
(1) Squamous epithelium + tunica externa of blood vessel
(2) Squamous epithelium + endothelium of blood vessel

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	(3) Transitional epithelium + tunica media of blood vessel(4) Columnar epithelium + 3 layered wall of blood vessel.									
35.	In lung, gaseous exchange is done by :- (1) Simple diffusion (3) Passive transport	(2) Active transport(4) fascilitated diffusion								
36.	 Which of the following statements is not true ? (1) The partial pressure of O₂ in deoxygenated blood is 40 mm Hg. (2) The partial pressure of O₂ in oxygenated blood is 95 mm Hg (3) The partial pressure of O₂ in alveolar air is 104 mm Hg (4) The partial pressure of CO₂ in alveolar air is 45 mm Hg 									
37.	Partial pressure of oxygen in alveoli, atmosp (1) 40, 159, 45 (2) 40, 0.3, 45	spheric air and tissue will be (3) 104, 159, 40 (4) 104, 0.3, 45								
38.	What will be the P_{0} and P_{0} in the atmospheric	heric air compared to those in the alveolar air?								
	(1) P_{o_2} lesser, P_{co_2} higher	(2) $P_{0,}$ higher, $P_{C0,}$ lesser								
	(3) P_{O_2} higher, P_{CO_2} higher	(4) P_{O_2} lesser, P_{CO_2} lesser								
39.	Partial pressure of CO_2 is higher : (1) At alveolar level (2) At tissue level	(3) In atmosphere (4) In oxygenated blood								
	TRANSPOR	RT OF GAS								
40.	"Methemoglobin" refers to (1) A colourless respiratory pigment (3) Oxygenated haemoglobin	(2) Oxidized haemoglobin(4) Deoxygeneted haemoglobin								
41.	Under normal condition 100 ml blood delive (1) 4 ml O_2 (2) 10 ml O_2	$\begin{array}{c} \text{ or } \underline{\qquad} \text{ to tissue.} \\ (3) 5 \text{ ml } \text{O}_2 \\ \end{array} (4) 25 \text{ ml } \text{O}_2 \end{array}$								
42.	Haldane effect is due to (1) CO_2 (2) Lactic acid	(3) pH (4) Oxyheamoglobin								
43.	What percentage of CO2 flows in blood in for (1) 7%(2) 23%	n form of bicarbonates (3) 50% (4) 70%								
44.	Effect of C02 concentration on dissociation of oxyhaemoglobin is called (1) Bohr's effect (2) Haldane effect (3) Hamburger effect (4) Root effect									
45.	Chloride shift for the transport of $(1) O_2$ (2) CO ₂	(3) CO (4) O ₃								
46.	Ratio of oxyhaemoglobin and haemoglobin i (1) Oxygen tension (3) Carbonate tension	n in blood is based upon (2) Carbon-di-oxide tension (4) Bicarbonate tension								

alkaline							
alkaline							
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alkaline							
alkaline							
(1) Binding of oxygen with haemoglobin increases(2) Red blood corpuscles are formed in higher number							
(4) will oscillate erratically							
(4) H^+ concentration decreases							
-							
-							
-							
-							
-							
-							
-							

(4) Statement A is correct and statement B is wrong

	REGULATION	AND DISEASES
59.	"Emphysema" is a condition in which -	
	(1) Repiratoy centre inhibited	(2) Lot of fluid in the lungs
	(3) The walls seperating the alveoli break	(4) Lungs have more O_2
60.	Rate of respiration is directly affected by	
	(1) CO_2 concentration	(2) O_2 in trachea
	(3) Concentration of O_2	(4) Diaphragm expansion
61.	If a man from sea coast goes to Everest pea (1) His breathing and heart beat will increase	
	(2) His breathing and heart beat will decrea	
	(3) His respiratory rate will decrease	
	(4) His heart beat will decrease	
62.	CO is more toxic than CO_2 because it:	
	(1) Damages lungs	
	(2) It destryos haemoglobin	
	(3) Affects the nervous system	
	(4) Reduces the oxygen carrying capacity o	f haemoglobin
63.	Carbon monoxide has greater affinity for H	aemoglobin as compare to oxygen:-
0	(1) 1000 Times (2) 200 Times	

- (1) 1000 Times (2) 200 Times (3) 20 Times (4) 2 Times
- 64. About 97% of oxygen is transported by RBC remaining 3% is :-
 - (1) Dissolved in plasma & transported
- (2) Retained in lungs
- (3) Attached to cell membranes
- (4) Found inside mitochondria

						ANSW	ER KI	£Υ					
				EX	ERCIS	E-I (Co	ncentu	al Que	stions)				
1.	(1)	2.	(4)	3.	(3)	4.	(4)	5.	(4)	6.	(1)	7.	(3)
1. 8.	(1) (1)	2. 9.	(4) (2)	3. 10.	(3) (2)	 11.	(4) (2)	3. 12.	(1)	0. 13.	(1) (2)	7. 14.	(3) (1)
15.	(3)	16.	(2)	17.	(3)	18.	(3)	19.	(2)	20.	(4)	21.	(3)
22.	(4)	23.	(3)	24.	(1)	25.	(1)	26.	(3)	27.	(3)	28.	(4)
29.	(1)	30.	(4)	31.	(3)	32.	(1)	33.	(4)	34.	(2)	35.	(1)
36.	(4)	37.	(3)	38.	(2)	39.	(2)	40.	(2)	41.	(3)	42.	(4)
43.	(4)	44.	(1)	45.	(2)	46.	(1)	47.	(1)	48.	(4)	49.	(4)
50.	(3)	51.	(1)	52.	(3)	53.	(2)	54.	(2)	55.	(1)	56.	(2)
57.	(4)	58.	(1)	59.	(3)	60.	(1)	61.	(1)	62.	(4)	62.	(2)
64.	(1)												