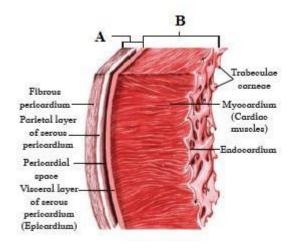
8. Respiration and Circulation

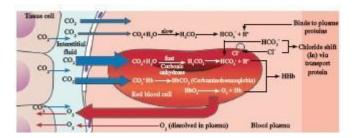
1) The partial pressure of carbon-dioxide of blood entering the pulmonary capillaries is mmHg. (a) 40 (b) 46 (c) 45 (d) 104
2) During expiration contracts. (a) Thorax (b) Ribs (c) Lungs (d) Sternum
3) The ventricular systole lasts for in normal condition. (a) 0.4 second (b) 0.5 sec (c) 0.3 sec (d) 0.8 sec
4) The bundle of His/ Tawara branches starts from (a) SA node (b) AV node (c) Coronary sinus (d) Purkinje fibers
5) Ligamentum arteriosum in embryonic duct called (a) Atrioventricular groove (b) Inter-ventricular sulci (c) Ductus arteriosus (d) Inferior vena cava
6) is called also known as atherosclerosis. (a) Coronary artery disease (b) Angina pectoris (c) Hypertension (d) Heart transplant
7) occurs in birds and mammals. (a) Single circulation (b) Double circulation (c) Open circulation (d) None of the above
8) In circulation, the blood flows with high pressure and contains respiratory pigments like hemoglobin for transportation of respiratory gases. (a) Single circulation (b) Closed circulation (c) Open circulation (d) Pulmonary circulation
9) In blood is circulated through the haemocoels. (a) Single circulation (b) Closed circulation (c) Open circulation (d) Pulmonary circulation
10) The blood contains of proteins. (a) 75% (b) 90% (c) 7 to 8% (d) 1 to 2%
11) The muscular structure that separates the thoracic and abdominal cavity is

(a) Pleura(b) Diaphragm(c) Trachea(d) Epithelium
12) What is the minimum number of plasma membrane that oxygen has to diffuse across to pass from a in the alveolus to haemoglobin inside a R.B.C.?(a) Two (b) Three (c) Four (d) Five
13) is a sound producing organ. (a) Larynx (b) Pharynx (c) Tonsils (d) Trachea
14) The maximum volume of gas that is inhale during breathing in addition to T.V is(a) Residual volume (b) I.R.V.(c) G.R.V. (d) Vital capacity
15) The upper respiratory system does not include (a) Throat (b) Nose (c) Nasopharynx (d) Larynx
 16) The olfactory chamber of nose responsible for (a) Trapping the dust (b) Detection of smell (c) Moistening the inhaled air (d) None of the above
17) Protists show as a respiratory organ. (a) Book gills (b) Lungs (c) Cloaca (d) Plasma membrane
18) is the common passage of food and air. (a) Larynx (b) Trachea (c) Nose (d) Pharynx
19) Cockroach shows which kind of circulatory system?(a) Open (b) Closed(c) Lymphatic (d) Double
20) used during surgery to support breathing. (a) Ventilator (b) ECG (c) Sphygmomanometer (d) All of these
21) The process of the WBC movement out of the capillary wall called (a) Erythrocytopenia (b) Diapedesis (c) Leucocytosis (d) Polycythemia
 22) respiratory system is not caused by bacteria and viruses. (a) Sinusitis (b) Pneumonia (c) Laryngitis (d) Emphysema

23) The A and B in the diagram is _____

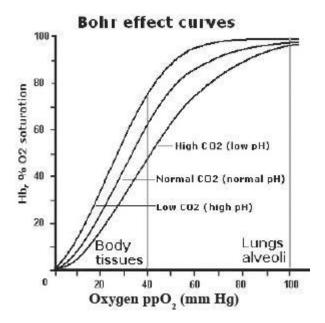


- (a) Pericardium and Heart
- (b) Diaphragm and epithelium
- (c) Pericardium and Heart wall
- (d) Diaphragm and lung tissue
- 24) _____ lies in mediastenum.
 - (a) RBC
 - (b) WBC
- (c) Heart
- (d) Lung
- 25) _____ secrete serotonin.
 - (a) RBC
- (b) WBC
- (c) Monocytes
- (d) Thrombocytes
- **26)** Diapedesis is performed by ______
 - (a) Erythrocytes
- (b) Thrombocytes
- (c) Adipocytes
- (d) Leucocytes
- 27) Pacemaker of heart is _____.
 - (a) SA node
- (b) AV node
- (c) His bundle
- (d) Purkinje fibers
- 28) Which of the following animals do not have closed circulation?
 - (a) Earthworm
- (b) Rabbit
- (c) Butterfly
- (d) Shark
- **29**) Which of the following is without nucleus?
 - (a) Red blood corpuscle
- (b) Neutrophill
- (c) Basophill
- (d) Lymphocyte
- **30**) The below picture explains _____.

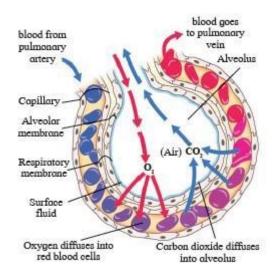


(a) Oxygen pickup and carbon dioxide pickup at the tissue

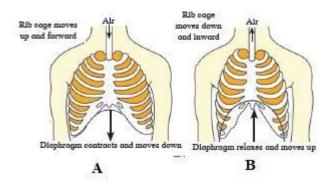
- (b) Oxygen release and carbon dioxide pickup at the tissue
- (c) Oxygen pickup and carbon dioxide release in the lungs
- (d) Oxygen release and carbon dioxide release in the lungs
- 31) Identify the diagram below.



- (a) Oxygen dissociation curve
- (b) Bohr effect
- (c) Haldane effect
- (d) Both a and b
- **32**) The below diagram explains exchange of gases between _____.



- (a) Alveolus and capillary
- (b) Alveolus and vain
- (c) Alveolus and lymph
- (d) None of these
- **33**) The 'A' and 'B' in the diagram are



- (a) Cellular and External respiration(b) Inspiration and Expiration

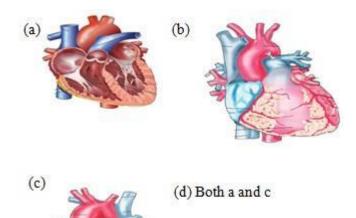
(c) Internal and external respiration(d) External Expiration
34) The fluid seen in the intercellular spaces in Human is (a) Blood (b) Lymph (c) Interstitial fluid (d) Water
35) $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O +$ (a) 38 ATP (b) 36 ATP (c) 34 ATP (d) 32 ATP
 (a) P (b) QRS complex (c) Q (d) T
37) is supported by 'C' shaped rings of cartilage. (a) Larynx (b) Trachea (c) Nose (d) Pharynx
 38) Neutrophils are stained with (a) Alkaline dyes (b) Basic dyes (c) Acidic dyes (d) Neutral dyes
39) show twisted nucleus.(a) Neutrophils (b) Monocytes(c) Acidophills (d) Cyanophils
 40) The steady rate of respiration is controlled by neurons located in the
41) Carbon dioxide transported by (a) RBC (b) WBC (c) Platelet (d) Leucocytes
42) fluid is present between the lungs. (a) Pleural fluid (b) Blood (c) Interstitial fluid (d) Lymph

43) Oxyhaemoglobin functions as an acid due to the increase in the number of (a) CO ₂ (b) O ₂ (c) H ₂ O (d) H ⁺
44) Opening of inferior vena cava is guarded by (a) Bicuspid valve (b) Tricuspid valve (c) Eustachian valve (d) The besian valve
45) Lymphocytes involved in (a) Humoral immunity (b) Cell-mediated immunity (c) Both a and b (d) Phagocytosis
46) Identify the diagram.
(a) Alveoli (b) Trachea (c) Bronchi (d) Pharynx 47) The below diagram is used for
Stomatal pore Leaf Stoma Leaf Stoma
(a) Stomata gaseous exchange(b) Solid exchange(c) Water exchange(d) All of the above
48) Diapedesis can be seen in cell. (a) RBC (b) WBC (c) Platelet (d) neuron
 49) Movement of cytoplasm in unicellular organisms is called (a) Diffusion (b) Cyclosis (c) Circulation (d) Thrombosis

50) _____ muscles contract when the external intercostal muscles contract

- (a) Internal abdominal
- (b) Jaw
- (c) Muscles in bronchial walls
- (d) Diaphragm

51) Identify dorsal view of heart



----- All the Best -----

8. Respiration and Circulation Keys

1) Ans. (c)

2) Ans. (a)) Ans. (c)) Ans. (b)) Ans. (c) **6)** Ans. (a)) Ans. (b) **8)** Ans. (b)) Ans. (c)) Ans. (c)) Ans. (b)) Ans. (a)) Ans. (a)) Ans. (b)) Ans. (d)) Ans. (b)) Ans. (d)) Ans. (d)) Ans. (a)) Ans. (a)) Ans. (b)) Ans. (d)) Ans. (c)) Ans. (c)) Ans. (d)) Ans. (d)

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-) Ans. (d)
- **44)** Ans. (c)
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-) Ans. (a)
-) Ans. (d)
-) Ans. (b)
-) Ans. (b)
-) Ans. (d)
-) Ans. (d)