



INDIAN SCHOOL NIZWA

CLASS X CH 5- WORKSHEET -2 RESPIRATION, TRANSPORTATION, & EXCRETION

Respiration:

- (a) The lungs are designed in human beings to maximise the area for exchange of gases.
(b) The rate of breathing in aquatic organisms is much faster than that seen in terrestrial organisms.
c) When we breathe out the air passage does not collapse.
2. Draw Respiratory system of human beings and label all parts.
2. How is oxygen and carbon dioxide transported in the human beings?
3. State in brief the role of lungs in the exchange of gases.

Transportation

Q1. Name the following

- Chamber where oxygenated blood from lungs is collected
 - Largest blood vessel in the body
 - Muscular wall separating right and left chambers
 - Blood vessel that carries blood from heart to the lungs
 - Part which receives deoxygenated blood from vena cava
 - Part which sends deoxygenated blood to lung through pulmonary artery
 - Part which receives oxygenated blood from lungs
 - Part which sends oxygenated blood to all parts of the body through aorta
2. Explain how deoxygenated blood travels from body to lung for purification. Draw well labelled diagram in support of your answer
 3. Write the functions of the two upper chambers of the human heart.
 4. Why are valves present in heart and the veins?
 5. Write a function of (a) blood vessels (b) blood platelets.
 6. How does transpiration help in upward transport of substances?
 7. Plants absorb water from the soil. Explain how does the water reach the tree top?
 8. (a) Transport of food in plants require living tissues and energy. Justify this statement.
(b) Name the components of food that are transported by the living tissues in plants .

Excretion : How is urine produced?

- (a) Write the important functions of the structural and functional unit of kidney.
(b) Write any one function of an artificial kidney.
2. Mention the pathway of urine starting from the organ of its formation. Name four substances which are reabsorbed from the initial filtrate in the tubular part of the nephron.
3. (a) What is the main toxic waste that kidney filters from the blood?
(b) Name any two substances which are selectively reabsorbed from the tubules of a nephron.
4. How does the plant get rid of excretory products?

5. The breathing cycle is rhythmic, whereas exchange of gases is a continuous process. Comment upon this statement.

6. State the functions of
(a) Renal artery (b) kidney (c) urinary bladder.