

CLASS: X BIOLOGY - LIFE PROCESSES

- Q1 How exchange of gases take place in plants?
- Q2 Differentiate between photosynthesis and respiration.
- Q3 Explain the mechanism of breathing in human beings.
- Q4 How does water rise in tall trees?
- Q5 Leaves of a potted plant are coated with Vaseline to block the stomata. Will this plant remain healthy for long? State the 3 reasons for your answer.
- Q6 How is prepared food transported to different parts of the plant?
- Q7 What is blood? What are the components of blood? Also write the function of each component.
- Q8 What are the advantages of having very thin and highly branched capillaries for blood flow?
- Q9 What is the difference between the blood flowing in the arteries and that flowing in the veins?
- Q10 What is the meaning of the term "Double circulation"?
- Q11 What will happen if excess bleeding takes place and what natural device preventing it?
- Q12 Correct the false statement
- The walls of the atrium are thicker than the ventricles
 - The oxygen carrying blood goes into the left auricle
 - Valves open on both the sides.
 - Xylem transports food material.
 - The blood circulation in man is of open type in man
- Q13 Differentiate between excretion and osmoregulation? Describe how excretion takes place in amoeba.
- Q14 What is dialysis? How is it useful?
- Q15 What is excretion? How is solid and gaseous waste excreted in humans?
- Q16 List the functions of blood.

CLASS: X CHEMISTRY - CHEMICAL REACTIONS AND EQUATIONS

- Give 5 examples each of physical and chemical changes that take place around us in our day to day life.
- When a magnesium ribbon is burnt in air, what are the two observations that you make?
- Write a balanced chemical equation to represent decomposition of lead nitrate on heating. What are brown fumes due to?
- Make a list of at least 10 cations and 10 anions.
- Taking help from the list prepared in Q4,, write the chemical formulae of:-
 - Barium chloride
 - Sodium Sulphate
 - Ammonium phosphate
 - Calcium hydroxide
 - Aluminium carbonate
 - Magnesium hydrogen carbonate
 - Zinc sulphide
 - copper (I) chloride
 - Potassium Bromide
 - Lead nitrate
 - Iron (III) oxide
 - Sodium Oxide
 - Silver sulphide
 - Calcium Fluoride
- Write the following in the form of balanced chemical equations:-
 - Calcium carbonate decomposes on heating to form calcium oxide and carbon – di – oxide.
 - When ammonium hydroxide is added to a solution of iron (II) Sulphate, a green ppt of iron (II) hydroxide and ammonium Sulphate are formed.
 - When a nail of iron is added to a solution of copper Sulphate, iron (II) Sulphate and copper metal are formed.
 - Zinc reacts with dil hydrochloric acid to form zinc chloride and hydrogen gas is liberated.
- A chemical reaction which is both combination as well as exothermic, is used by us for white washing purposes. Write the equation for the same.
- What is a decomposition reaction? Give 2 examples each of decomposition taking place due to heat, light and electricity.

9. How does a displacement reaction differ from a double displacement reaction? Give examples to explain.