

St. Mary's School, Dwarka

Holiday Homework

Class XI

Subject : Biology

Worksheet 1

Q1	What is the composition of blood?	2
Q2	What are formed elements?	2
Q3	What are circulatory pathways?	2
Q4	Expand ECG and explain the different segments in it.	2
Q5	How is a cardiac activity regulated?	2
Q6	What do you mean by double circulation?	2
Q7	Draw and label the structure of a human heart.	3
Q8	What is the role of SAN, AVN and atrio-ventricular bundle inside of the heart?	3
Q9	What is the difference between a) blood and lymph b) systole and diastole? c) D-wave and T-wave.	3
Q10	Explain the working of human heart.	3

Worksheet 2

Q1	Mention the steps of respiration.	2
Q2	Expand and explain IRV and FC.	2
Q3	How are oxygen and carbon dioxide transported?	3
Q4	Mention two diseases of respiratory system. What are the causes of the same?	3
Q5	How is respiration regulated?	3
Q6	What is the effect of carbon dioxide on oxygen transport?	3
Q7	Distinguish between a) IRV and ERV b) vital capacity and total lung capacity c) Inspiratory capacity and expiratory capacity	3
Q8	Graphically explain the oxygen dissociation curve.	3
Q9	Represent the gaseous exchange and body tissues with blood and transport of oxygen.	5
Q10	Draw and label the diagram of the human respiratory system.	5

Worksheet 3

Q1	How does pepsinogen change into an active form?	1
Q2	Give the dental formula of human beings.	1
Q3	Why are villi present in the small intestine not in the stomach?	2
Q4	State the role of pancreatic juice in the digestion of proteins.	2
Q5	How are polysaccharides and disaccharides digested?	3
Q6	What are the functions of liver?	3
Q7	How does the bile help in digestion of fats?	3
Q8	Draw and label the diagram of duct system of liver, gallbladder and pancreas.	3
Q9	Make a table showing the organs of digestion with their functions.	5
Q10	Draw and label the digestive system.	5