



INDIAN SCHOOL AL BURAIMI
BIOLOGY WORKSHEET

STD : X
NAME:

DATE :
WORKSHEET 3

Transportation in Living organisms

1. Give reasons for the following. (a) Arteries are thick walled. (b) Blood goes only once through the heart in fishes (c) Plants have low energy needs.
2. a) Draw a sectional view of the human heart and label on it, (i) Pulmonary artery (ii) Right auricle (iii) venacava (iv) pulmonary vein
(b) Explain why ventricles have thick muscular walls than the atria ?
3. What is lymph? How is composition of lymph different from blood plasma? What is the direction of its flow? List two functions of lymphatic system.
4. Describe double circulation in human beings.
(a) Why is it necessary?
(b) How are arteries different from veins?
5. Draw a word diagram and label the parts in double circulation.
6. State the functions of the following components of transport system: (i) Blood (ii) Lymph
7. Write one feature which is common to each of the following pairs of terms/organs
(i) glycogen and starch (ii) chlorophyll and haemoglobin
(iii) gills and lungs (iv) arteries and veins
8. Write down the differences between movement of water and minerals through Xylem and movement of food through phloem.

Excretion in living organisms

1. (a) Define excretion. Name any two substances that are selectively reabsorbed.
(b) State the purpose of making urine.
(c) Draw and label the following parts in the human excretory system.
(i) Right Kidney (ii) Urinary Bladder (iii) Right renal artery
2. Write any two vital functions of kidneys.
3. What is the role of glomerulus in kidneys?
4. What are the different modes of excretion in plants?
5. What happens to glucose that enters the nephron along with filtrate?
6. Describe in brief the function of kidneys, ureters, urinary bladder and urethra.