



INDIAN SCHOOL DARSAIT DEPARTMENT OF SCIENCE



Subject : BIOLOGY Topic : LIFE PROCESSES (Transportation) Date of Worksheet
24-05-2017
Resource Person: Mrs. S. Subhaja Nandakumar Date : _____
Name of the Student : _____ Class: X Div.____ Roll Number : ____

Answer the following

- 1) Identify the fluid part of blood.
- 2) What is the role of functions of platelets in the blood? 1
- 3) State the benefits of the septum that separates the right side and left side of the heart in mammals and birds? 1
- 4) What is a Capillary? 1
- 5) Why do veins have valves and thinner than arteries. 1
- 6) Distinguish between 2x2
 - a)Arteries and Veins
 - b)Transpiration and Translocation
- 7) (a) What is Blood Pressure? How is the blood pressure diagnosed by a physician? 3
(b) What is the normal Blood Pressure in man?
- 8) Give reasons: 3
 - (a) During day transpiration pull becomes the major driving force in the movement of water in the xylem.
 - (b) Amphibians and many reptiles can tolerate mixing of oxygenated and deoxygenated blood.
 - (c) Plants have low energy needs and use relatively slow transport systems.
- 9) Define lymph? State the functions of lymph in our body. 3
- 10) (a) Draw a labelled diagram of sectional view of human heart. 5
(b) Describe double circulation in human beings. Why is it necessary?



INDIAN SCHOOL DARSAIT DEPARTMENT OF SCIENCE



Subject : BIOLOGY Topic : LIFE PROCESSES (Excretion)

Date of Worksheet :
24-05-2017

Resource Person: Mrs. S. Subhaja Nandakumar

Date : _____

Name of the Student : _____ Class :X Div. __

Roll Number : __

Answer the following

1. Define excretion 1
2. Name the photosynthetic and respiratory waste produced by organisms. 1
3. Name two excretory products other than O₂ and CO₂ in plants. 1
4. Define nephron? 1
5. How is the dialysing fluid different from the blood? 1
6. Draw the structure of a nephron and label on it the following parts : 2
 - (i) Glomerulus (ii) Bowman's capsule (iii) Renal artery (iv) Collecting duct
7. Give reasons: 2
 - a) Tubules help reabsorb glucose, proteins and water.
 - b) Waste should be removed from our body in time
8. How is urine formed and what happens to glucose, amino acids, salts and water that enter the nephron along with filtrate? 3
9. Describe the process involved in dialysis. 3
10. Draw a diagram of excretory system in human beings and label the following 5
 - (i) left kidney (ii) ureter (iii) urinary bladder (iv) urethra