



INDIAN SCHOOL DARSAIT DEPARTMENT OF SCIENCE



Subject : BIOLOGY Topic : LIFE PROCESSES (TRANSPORTATION and EXCRETION) Date of Worksheet: 26-04-2018

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Date : _____

Name of the Student : _____ Class & Division : X Div. ___ Roll Number : ___

Answer the following

Marks

- 1) Identify the blood sample taken from
a) pulmonary vein b) Pulmonary artery
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- 2) Name the component of blood that helps in the formation of blood in the event of a wound.
- 3) Leaves of a healthy potted plant were coated with petroleum jelly. How will it affect the plant? state two reasons.
- 4) What is translocation? Why it is essential for plants.
- 5) Differentiate between single and double circulation found in vertebrates.
- 6) What are the components of transport system in highly organized plants?
- 7) What is the advantage of four chambered of heart?
- 8) In mammals and birds why is it necessary to separate oxygenated and de-oxygenated blood?
- 9) How is food transported in plants?
- 10) What are the differences between arteries and veins?
- 11) What do you mean by lymph? Mention its functions.
- 12) Differentiate between transport of materials in xylem and phloem.
- 13) List the three kinds of blood vessels of human circulatory system and write their functions in tabular form.
- 14) Why and how does water enter continuously into the root xylem of plants?
- 15) Define translocation with respect to transport in plants. Why is it essential for plants? Where in plants are the following synthesis?
a) Sugar b) Hormone
- 16) Describe double circulation in human beings. Why is it necessary? Explain with the help of a diagram.

LIFE PROCESSES (EXCRETION)

Answer the following	Marks
1) What is the role of glomerulus in kidney? _	1
2) <u>Why is the removal of faeces from the alimentary canal not considered excretion?</u>	1
3) <u>How do unicellular organisms remove their wastes ?</u>	1
4) Which of the nitrogenous waste is most soluble in water?	1
5) <u>Which substance is selectively reabsorbed by the tubular part of nephron?</u>	1
6) What is the role of skin, lungs and intestine in the process of excretion in man?	2
7) <u>What do you mean by artificial kidney?</u>	2
8) State two vital functions of kidney	
9) What is role of skin, lungs and intestine in the process of excretion in man?	2
10) What are the methods used by plants to get rid of excretory products?	3
11) a) Draw a diagram of excretory system in human beings and label the following: Aorta, Kidney, Urinary bladder and Urethra.	3
b) How is the urine produced and eliminated?	
12) a) Draw the structure of a nephron and label the following on it. (a) Glomerulus (b) Bowman's capsule (c) Renal artery (d) Collecting duct	5
b) What happens to glucose that enters the nephron along with filterate?	