

## WORKSHEET

(Ch- 6 Life Processes)

(Based on Board and previous years CCE questions)

Sub Topic: Transportation

1. Give reason why veins have thin walls as compared to arteries? (1)
2. Plants have lower energy needs as compared to animals. Explain? (1)
3. Leakage of blood from vessels reduces the efficiency of pumping system. How is leakage prevented? (1)
4. Which mechanism plays an important role in transportation of water in plants a) during daytime b) during night? (1)
5. Define translocation? Why is it essential for plants? (2)
6. Write the composition of blood and explain the function of each component. (2)
7. Give the significance of double circulation in human heart or why is it necessary to separate oxygenated and deoxygenated blood in birds and mammals? (2)
8. What will happen to a plant if xylem is removed? (2)
9. "Lymph is another type of fluid involved in transportation". Justify the statement by explaining important functions of lymph". (2)
10. What is the advantage of having four chambered heart? (2)
11. Write the differences between a) arteries and veins b) xylem and phloem. Each (2)
12. a) Name the blood vessel that brings deoxygenated blood to human heart. (3)  
b) Which chamber of human heart receives deoxygenated blood?  
c) Explain how deoxygenated blood from this chamber is sent to lungs for oxygenation.
13. Give detailed structure and functioning of human heart with labelled diagram. (5)
14. a) Draw a schematic diagram representation of transport and exchange of O<sub>2</sub> and CO<sub>2</sub> in human body.  
b) Illustrate the movement of water in plants during transpiration and explain it?  
c) Diffusion will not be sufficient to provide raw materials in leaves and energy in roots of plants. Therefore, a proper system of transportation is essential. Explain. (5)

Sub Topic: Excretion

15. What is meant by osmoregulation? Explain its importance? (2)
16. List four strategies used by plants for excretion. (2)
17. State two vital functions of human kidney. (2)
18. Assign the specific functions to the following organs in relation with excretion in human beings: (5)  
a) Glomerulus in Bowman's capsule    b) Ureter    c) Kidney    d) Tubular part of nephron    e) Renal artery
19. Draw a neat and labelled diagram of human urinary system and structure of nephron. (5)
20. Describe the process of urine formation in kidneys & mention 3 steps of functioning of nephron. (5)