

Class Work

Judge yourself

Instruction:

- The answer hints are provided here. Elaborate according to marks.

1. The Bowman's capsules are found in
 - a. Cortex b. Medulla c. convoluted tubule d. Loop of Henle
2. The major waste produced by human body are
 - A. Carbon dioxide B. Urea C. Both A and B D. Only B

Choose any one option (for Q. 3)

- 1) Both A and R are true and R is the correct explanation of A.
- 2) Both A and R are true but R is not the correct explanation of A.
- 3) A is true but R is false.
- 4) A is false but R is true.
- 5) Both A and R are false.

3. **A:** The epithelial cells of Bowman's capsule are arranged in an intricate manner so as to leave some minute space for filtration.

R: Ultrafiltration is the first step of urine formation.

Ans 2

4. The rate of transpiration will _____ if the atmospheric pressure is low

- a. Increase
- b. Decrease
- c. Stay unchanged
- d. Can't be determined

5. Draw and label

- a. the structure nephron b. Excretory system in human being
(Take help from NCERT Book or notes provided)

- 6) Mention the main three activities of a nephron.

Ans. Hint: Ultrafiltration, reabsorption, secretion, urine formation

7) **Explain the role of translocation in plants.**

Ans Hints: Role of Phloem for conduction of food materials to each and every part of plant body efficiently without the pumping system.

8) **How do plants perform excretion- narrate briefly with 2 examples.**

**Ans. Hint: CO₂, O₂, water through stoma
others with fallen leaves**

9) **What is transpiratory pull ?**

Ans hint: Transpiration pull or the suction force is the force which aids in drawing the water upward from roots to leaves. In leaves, some amount of water is used for photosynthesis and excess water is released into atmosphere through openings called as stomata.

10) a. **Explain how water amount is controlled in urine formation?**

Ans Hint: Based upon weather Loop of Henle, Hormones (ADH-Antidiuretic Hormone) control water content how much to be conserved or excreted outside.

b. Name some components reabsorbed during urine formation in human body.

Ans Hint: Na ion ,K ion, amino acid, water etc.