

National Institute of Open Schooling
Lesson 14- Respiration and Elimination of Nitrogenous Wastes
Worksheet-14

1. Trace the passage of glomerular filtrate starting from Bowman's capsule , passing through various parts of the nephron and up to the urethra.
2. When a plain-dweller visits a hill station, he feels uncomfortable due to less availability of oxygen. How does his/her body adjust with the condition?
3. Describe the selective re-absorption from the glomerular filtrate in the (i) descending and (ii) ascending limbs of uriniferous tubules in human kidney.
4. Mention those hormones which are responsible for the reabsorption of Na^+ and water. Where are these hormones produced?
5. Categorize *Amoeba*, Earthworm, lizard and Pigeon on the basis of the wastes produced and describe the relative water requirement for excreting them out.
6. What is the composition of dialyzing fluid? Why is cellophane used in haemodialysis?
7. How is water and salt balance maintained by kidney?
8. Describe the various ways in which CO_2 is transported from the tissues to the lungs through blood.
9. Mention the situation for the following abnormal components present in the urine.
 - i. Glucose
 - ii. Protein
 - iii. Acetone
 - iv. Erythrocytes
 - v. Leucocytes
 - vi. Uric acid crystals
- 10 With the help of flow chart, show the breakdown of glucose in aerobic and anaerobic respiration.