

Vidya Bhawan Balika Vidyapeeth Lakhisarai

Arun Kumar Gupta

Class 10th

Subject Biology

Date:- 03.06.21

LIFE PROCESSES

Excretion System in Human Beings

Artificial Kidney

Haemodialysis: The process of purifying blood by an artificial kidney. It is meant for kidney failure patients.

Excretion in Plants

Plants use different strategies for excretion of different products :

→ Oxygen and carbon dioxide is diffused through stomata.

→ Excess water is removed by transpiration.

→ Plants can even loose some of their old parts like old leaves and bark of tree.

→ Other waste products like raisins and gums especially in old xylem cells which can also be lost by plants.

→ Plants also secrete some waste substances into the soil around them.

Formation of urine in Humans

The urine formation involves three steps :

(i) Glomerular filtration: Nitrogenous wastes, glucose water, amino acid filter from the blood into Bowman Capsule of the nephron.

(ii) Tubular reabsorption: Now, useful substances from the filtrate are reabsorbed back by capillaries surrounding the nephron.

(iii) Secretion: Urea, extra water and salts are secreted into the tubule which open up into the collecting duct & then into the ureter.