



مدرسة جيه اس اس الخاصة

ISS PRIVATE SCHOOL, DUBAI

Name: Subject: Reg. No.:

Excretory System - Board Questions

Date:

1. Xylem is the tissue that transports water and minerals in the plant. If the xylem tissue of the plant is removed then the active transport of minerals that are essential for the plant will not happen. Along with this, ^{movement of} water which is also an essential component for photosynthesis, will stop which will lead to the wilting of leaves and eventually the death of the plant. The plant will also not able to prepare food.
3. * Kidneys: Filter nitrogenous waste
 - Regulates: body fluid volume
 - mineral composition
 - Acidity.
 - This is done by excreting and reabsorbing water and inorganic electrolyte (Na and K)
- * Ureters: The ureters are long narrow tubes that transport urine from the kidney to the urinary bladder.
- * Urinary bladder: It is an elastic muscular wall capable of great expansion in order to store urine.
- * Urethra: It excretes the urine from the urinary bladder.
- ~~Excretion~~ The first step involved in the formation of urine is filtration by the glomerulus capsule. The afferent arteriole brings the blood for filtration. The blood is filtered by the ~~glomerulus~~ is collected in the Bowman's capsule, which consists of salt + plasma + amino acids + protein + blood cells + glucose. The efferent arteriole carries the blood cells and protein. The excess water and ~~filtrate~~ are then absorbed by ~~the~~ tubular or selective reabsorption from the filtrate.

Reabsorption is regulated by various structures in the nephron. The collecting duct absorbs large amount of water, secretes a small amount of urea and forms concentrated urine. This urine is then stores in the urinary bladder, the bladder stretches, the stretching receptors then sends a signal to central nerves which signals the bladder muscle. The inbrate contraction of the bladder along with the relaxation of urethral sphincters, the urine is released or eliminated.

4. Plants have a large amount of dead cells since they do not move and hence require less energy. Due to these reasons the transport system in plants is slow comparatively.

5. Transpiration creates a pressure that inturn creates a pull for the absorption and transport of water and minerals through the xylem. This process occurs better during the day as it is directly proportional to evaporation which is proportional to sunlight. Therefore, water and minerals travel faster through xylem in the day as compared to night time.

6. Transportation of food by the phloem due to osmotic pressure is known as translocation in plants.



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