

NCERT Solutions for Class 11 Biology

Chapter 16 – Excretory Products and their Elimination

1. Define Glomerular Filtration Rate (GFR)

Ans: The amount of glomerular filtrate which is formed by the kidneys in a minute is known as glomerular filtration rate, which is about 125ml per minute.

It is used to check the amount of blood passing through the glomeruli.

2. Explain the Autoregulatory mechanism of GFR.

Ans: The regulation of GFR through the kidney is autoregulatory and it is regulated by the juxtaglomerular apparatus, which is a microscopic structure located between the renal corpuscles and distal convoluted tubules of the same nephron.

- GFR helps in the regulation of renal blood flow and glomerular filtration rate. Fall in GFR activates juxtaglomerular cells which releases renin.
- By the renin-angiotensin mechanism, the reabsorption of sodium and water takes place with increased blood pressure which brings GFR back to normal.

3. Indicate whether the following statements are true or false:

A. Micturition is carried out by a reflex.

B. ADH helps in water elimination, making the urine hypotonic.

C. Protein-free fluid is filtered from blood plasma into the Bowman's capsule. Henle's loop plays an important role in concentrating the urine.

D. Glucose is actively reabsorbed in the proximal convoluted tubule.

Ans:

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Mr. Rohit Manglik



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