

Chapter- 19

EXCRETORY PRODUCTS AND THEIR ELIMINATION

VERY SHORT ANSWER QUESTIONS (1 mark)

01. What is the excretory product of reptiles and aves?
02. In which organism do you find (i) Nephridia (ii) Antennary glands as an organ of excretion?
03. Write the name of two actively transported substances in the glomerular filtrate.
04. Which cells form filtration pores or slits?
05. Give two examples of the ureotelic organisms.
06. Which are the functional units of the kidney? They are present in what number per kidney?
07. Where does reabsorption occur in a nephron?
08. What is GFR?
09. How do lungs help in excretion?
10. What is the working principle of dialysis?

SHORT ANSWER TYPE QUESTIONS (2 marks)

11. Explain the process of micturition.
12. Write a note on ANF and its functioning.
13. Write the role of JGA in kidney function.
14. Discuss the function of PCT in our bodies.
15. Discuss the role of osmoreceptors in the maintenance of the osmotic conditions of body fluid.
16. What is renal transplantation? Mention the criteria on which a kidney donor is finalized.
17. What is the significance of tubular secretion?

SHORT ANSWER TYPE QUESTIONS (3 marks)

18. Explain the hormonal feedback circuit in controlling renal function.

19. Where do ultrafiltration, reabsorption, and secretion occur in a nephron, and how?
20. How does the PCT of the nephron contribute to homeostasis?
21. Describe how Henle's loop helps in concentrating urine in humans.
22. Explain the function of the vasa recta.
23. Ureters do not have valves at their ends opening into the urinary bladder yet urine does not flow back. Why?
24. What is glomerular filtration?

LONG ANSWER TYPE QUESTIONS (5 marks)

25. (a) Explain the condition in collecting duct that makes urine hypertonic.
(b) Draw a well - labelled diagram of the human kidney.
26. Describe the functional anatomy of the human nephron.
27. Give a brief account of the counter current mechanism.

HOTS/MODEL QUESTIONS

01. What is the material used in the process of haemodialysis as a semi-permeable membrane?
02. Describe the role of alcohol and caffeine in urine concentration.
03. What is the composition of sweat produced by sweat glands?
04. Name the pigment that causes the pale yellow colour of urine.
05. How do sebum and oil glands help in excretion?
06. What is the ratio of the concentrated filtrate to that of the initial filtrate?
07. What will be the effect on the amount of urine released when abundant water is there in body tissues in the case of vertebrates?