

Marks

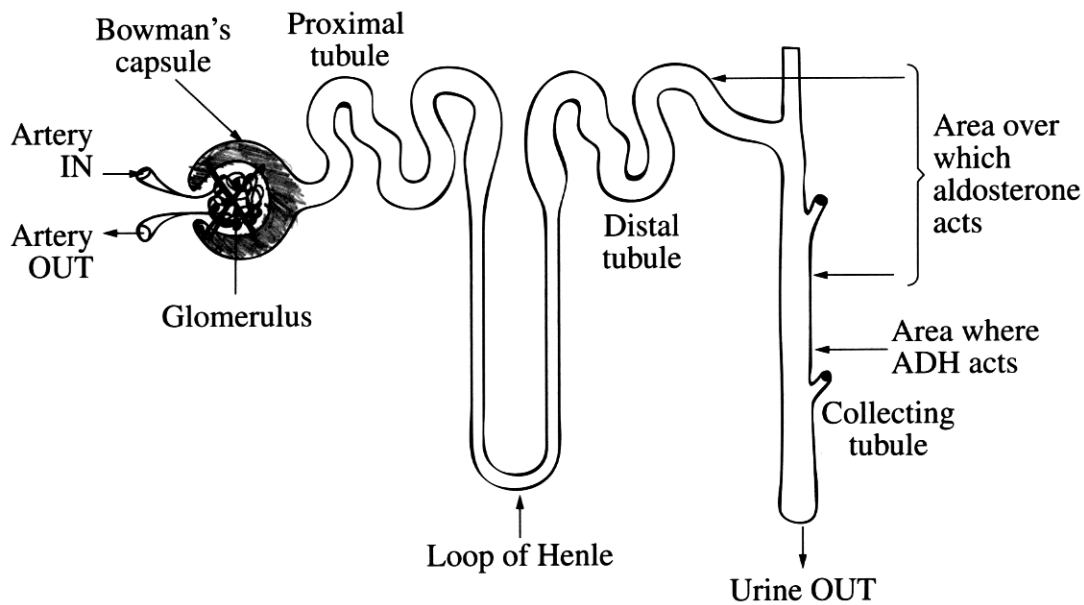
Question 23 (6 marks)

The diagram represents a nephron which is the functional unit of the kidney.

Nephrons make urine by:

- filtering small molecules and ions from the blood;
- reabsorbing the needed amounts of useful materials.

Surplus or waste molecules and ions flow out as urine.



- (a) Identify the area where filtration occurs, by marking it with an X on the diagram. 1
- (b) Identify the area where reabsorption occurs, by shading it on the diagram. 1
- (c) Discuss the importance of hormone replacement therapy for people who cannot secrete aldosterone. 4

For people using the hormone replacement therapy because they cannot secrete enough aldosterone from the glomerulus to be absorbed by the Bowman's capsule where they have less ions and salts.

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