Excretory Products and their Elimination

CHAPTER

TRY YOURSELF

ANSWERS

- 1. Class Arachnida has coxal glands as excretory organs.
- 2. Biliverdin and bilirubin

3. Some animals performs two modes of excretion. This is known as dual excretion. Adult frogs and toads are ureotelic but their larvae are aquatic and ammonotelic.

4. Juxtamedullary nephrons forms the 15% of total nephrons and cortical nephrons forms the 85% of total nephrons.

5. Lacis cells are located in the interval between the macula densa and the afferent and efferent arterioles.

6. Differences between male urethra and female urethra are follows:

S.No.	Male urethra	Female urethra
(i)	It is much longer (about	It is short (about 3-5 cm
	20 cm in length).	in length).
(ii)	It carries both urine and	It carries only <mark>urine.</mark>
	semen.	
(iii)	It opens out at the tip	It opens by urinary
	of penis by urinogenital	apertur <mark>e in</mark> front of
	aperture.	vaginal aperture.
(iv)	It has three regions:	It is not differentiated
	prostatic (3-4 cm),	into such regions.
	membranous (1 cm) and	
	penial (15 c <mark>m</mark>).	

7. The active reabsorption of sodium ions from the filtrate in DCT occurs under the influence of antidiuretic hormone (ADH).

8. Maximum hydrogen ions secretion occurs in the proximal convoluted tubule (PCT).

9. Alcohol decreases the level of ADH. This lowers reabsorption of water and increases loss of water in urine. Therefore, beverages having a high content of alcohol cause excessive urination and dehydration.

10. Antidiuretic hormone (ADH)

11. Angiotensin-II

12. The colour of urine is caused by the pigment urochrome, which is a breakdown product of haemoglobin from worn out red blood corpuscles. The colour of the urine may be affected by food.

13. Hematuria is the presence of blood or blood cells in urine while haemoglobinuria is the presence of haemoglobin in urine.

14. Salivary glands takes part in the excretion of heavy metals ions such as lead and mercury.

15. Intestine is considered as an excretory organ because the epithelial cells of colon excrete excess salts of calcium and iron along with faeces.

16. Immunosuppressants prevents graft rejection by body's immune response. An ideal immunosuppressant suppresses immunity against foreign tissue but maintains immunity against infection. Cyclosporin is a good immunosuppressant.

17. Renal failure refers to decrease or stop of glomerular filtration due to low blood volume, decrease cardiac output, damaged renal tubules, etc.

Haemodialysis (or treatment by artificial kidney) is given to a person who is suffering from renal failure.

MtG BEST SELLING BOOKS FOR CLASS 11



Visit www.mtg.in for complete information