

15.1 Excretion and Excretory Products

1. Ident	fy the	INCORRI	CT	match.
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- (A) Fluids Urine
- (B) Bilirubin Facces
- (C) Urochrome Urine
- (D) Volatile substances in spices Sweat

Body of an organism cannot store excess

- (A) carbohydrates
- (B) fats
- (C) amino acids
- (D) all of these

Excess amino acids in the body are broken down by the process of

- (A) ammonification
- (B) deamination
- (C) nitrification
- (D) denitrification

4. The tadpole of frog is

- (A) uricotelic
- (B) ammonotelic
- (C) ureotelic
- (D) guanine

Adult frog is

- (A) ammonotelic
- (B) ureotelic
- (C) uricotelic
- (D) guanotelic

6. Fresh water invertebrate or amphibian larvae are

- (A) ammonotelic
- (B) ureotelic
- (C) uricotelic
- (D) guanotelic

Ammonia is

- (A) very toxic
- (B) less toxic
- (C) least Toxic
- (D) none of these

The elimination of nitrogenous wastes in the form of ammonia is called

- (A) ammonotelism
- (B) urcotelism
- (C) uncotelism
- (D) Quanotelism

Organisms which excrete ammonia as main excretory product are

- (A) ammonotelic
- (B) ureotelic
- (C) uncotelic
- (D) guanotelic

10. Ammonia is

- (A) insoluble in water
- (B) partly soluble in water
- (C) soluble in water
- (D) none of these

. Ammonia is very toxic, hence

- (A) requires immediate removal.
- (B) can be retained in the body for sometime.
- (C) can remain in the body for a longer time.
- (D) none of these

12. Animals that are ammonotelic are usually

- (A) aquatic
- (B) terrestrial
- (C) arboreal
- (D) acrial

13. Urea is

- (A) very toxic
- (B) less toxic
- (C) least toxic
- (D) none of these

14. Which of the following is produced during Ornithine cycle?

- (A) Urine
- (B) Urea
- (C) Ammonia
- (D) Creatinine
- 15. In ureotelic organisms, how many ATP molecules are required to produce one molecule of urea?
 - (A)

- (B) 2
- (C) = 3
- (D) 4
- The chief nitrogenous waste product in the urine of terrestrial mammals is
 - (A) ammonia
- (B) (urea)
- (C) uric acid
- (D) gumnine
- 17. The normal constituent of unne of a healthy person is
 - (A) albumin
- (B) acetone
- (C) urea
- (D) bile pigment
- 18. Ureotelism occurs in
 - ____ animals.
 (B) land
 - (A) aquatic (C) aerial
- (D) both (A) & (B)
- 19. The elimination of nitrogenous wastes in the form of uric acid is called
 - (A) ammonotelism
- (B) ureotelism
- (C) uricotelism
- (D) guanotelism
- Sharks retain more urea in their body fluid to make their blood ______ to surrounding marine water.
 - (A) isotonic
- (B) hypotonic
- (C) hypertonic
- (D) none of these
- Inosinic acid pathway is responsible for synthesis of
 - (A) uric acid from ammonia.
 - (B) ammonia from uric acid.
 - (C) synthesis of urea from ammonia.
 - (D) synthesis of ammonia from urea.
- 22. Uric acid is
 - (A) very toxic
- (B) less toxic
- (C) least toxic
- (D) none of these
- 23. Uric acid is
 - (A) least soluble in water
 - (B) readily soluble in water
 - (C) less soluble in water
 - (D) none of these
- Uricotelism causes _____ of body's water.
 - (A) considerable loss (B)

least loss

(D) no loss

less loss

- 25. Which one of the following contains uric acid as the chief nitrogenous waste?
 - (A) Frog

(C)

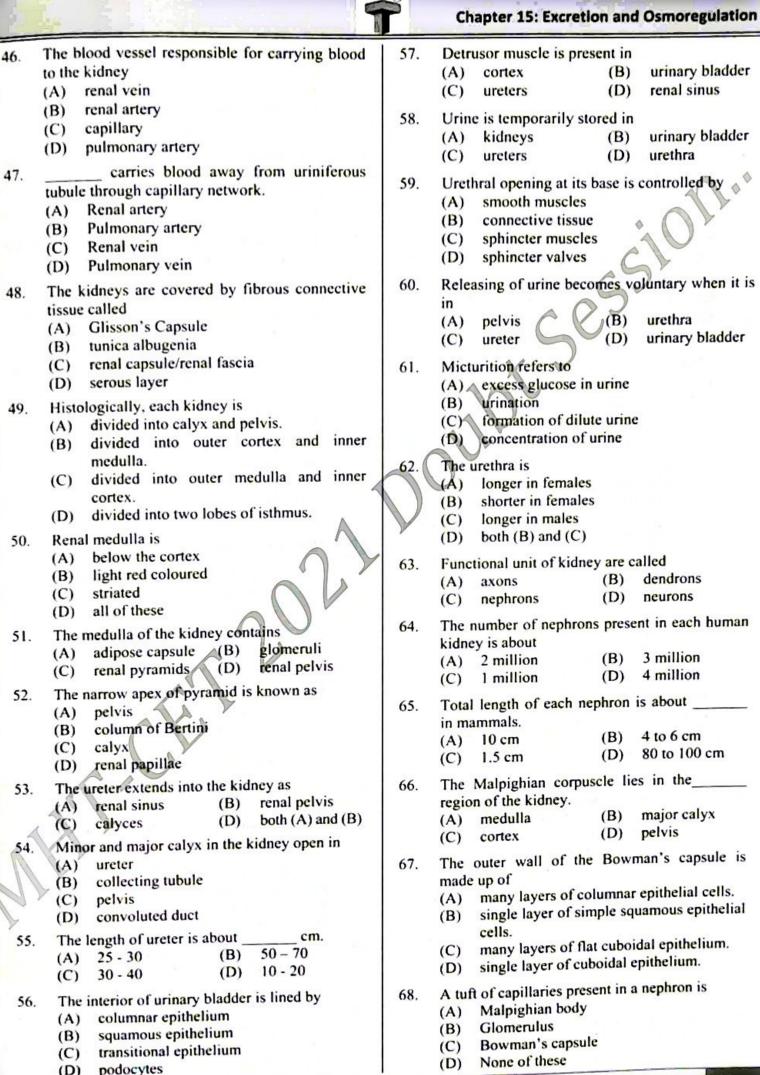
- (B) Pigeon
- (C) Land snails
- (D) Both (B) and (C)

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- 26. The uricotelic animals are normally found in
 - aquatic habitat
 - (B) dry habitat
 - (C) aerial habitat
 - (D) terrestrial habitat
- 27. Excessive formation of uric acid may result in
 - (A) gout
 - (B) rheumatoid arthritis
 - (C) osteoarthritis
 - (D) osteoporosis
- 28. The elimination of guanine in solid form is called
 - (A) ammonotelism
- (B) ureotelism
- uricotelism (C)
- (D) guanotelism
- 29. Guanotelism is seen in
 - spiders and scorpions
 - birds and reptiles (B)
 - (C) fishes and amphibians
 - (D) all of these
- 30. Level of plasma creatinine above normal indicates poor
 - (A) renal function
 - (B) liver function
 - (C) thyroid function
 - pituitary function
- Regulation of water and salt balance in the body 31. fluid is called
 - (A) excretion
- (B) osmoregulation
- (C) respiration
- (D) circulation
- Which of the following organisms possesses salt 32. excreting glands?
 - (A) Sea turtles
- Marine Iguanas (B)
- (C) Albatross
- All of these (D)
- Marine organisms are mostly 33.
 - (A) osmoregulators
 - (B) osmoconformers
 - (C) eurythermal
 - (D) curyhaline
- True organs of excretion are found in animals that exhibit
 - (A) asymmetry
 - radial symmetry (B)
 - bilateral symmertry (C)
 - (D) all of these
- Which one of the following organisms excrete 35. waste through nephridia?
 - (A) Cockroach
- Earthworm (B)
- (C) Crab
- (D) Liver fluke
- 36. Protonephridia is the excretory organ of
 - (A) platyhelminthes
- (B) coelenterates
- (C) arthropods
- (D) aschelminthes

- Identify the INCORRECT statement. 37.
 - Metanephridia are unbranched coiled tubes that connect the body cavity to nephrostomes.
 - Body fluid enters the nephridium through (B) nephridiopore.
 - In insects, excretion takes place by (C) Malpighian tubules.
 - glands green have Crustaceans (D)
 - excretory organs. 15.2 Human Excretory System in Human
- 6 Being
- Position of the kidneys in the body is 38.
 - inside the peritoneum.
 - in the thoracic cavity. (B)
 - just above the diaphragm. (C)
 - attached to the dorsal wall of the (D) abdominal cavity.
- In man, kidneys are present on either side of the 39. vertebral column at the level of
 - (A) 10th thoracic to 3rd lumbar vertebrae
 - 12th thoracic to 5th lumbar vertebrae
 - 12th thoracic to 3rd lumbar vertebrae (C)
 - 10th thoracic to 5th lumbar vertebrae
- Which membrane separates the kidneys from the abdominal cavity?
 - (A) Pericardium
- (B) Periosteum
- (C) Peritoneum
- (D) Pleura
- 41. Kidneys of man have
 - (A) both side concave.
 - outer side convex and inner side concave. (B)
 - outer side concave and inner side convex. (C) (D)
 - both side convex.
- 42. The point of the kidney which is a point of entry and exit for the renal artery, renal vein, lymph vessels, nerves and ureters is
 - (A) hilus
- (B) renal pelvis
- (C) pyramid
- (D) renal sinus
- 43. is funnel-shaped area in the region of medulla of kidney. (A) Ureter

 - (B) Calyx
 - Renal pelvis (renal sinus) (C) (D)
 - Column of Bertini
- The opening of pyramidal pocket in pelvis is 44. (A)
 - hilus
 - (C) calyx
- (B) cortex
- Which one is not the function of kidney? (D) duct of Bellini 45.
 - Acid-base balance
 - Osmoregulation (B) (C)
 - Urea synthesis Salt balance (D)



(D)

MHT-CET Triumph Biology (MCQs) The collecting tubules of a nephron open into 80. 69. Each nephron begins with pelvis (A) renal pyramids (A) Bowman's capsule (B) renal column of Bertini (B) Glomerulus (C) collecting duct (C) Malpighian corpuscle (D) The proximal convoluted tubule has a brush (D) None of these 81. border which is due to 70. Glomerulus is enclosed in minute hairs (B) microvilli (A) peritoneum (A) folded tubes (D) endothelium (B) infundibulum (C) Which of the two structures of nephron are (C) Bowman's capsule present in the cortex of kidney? (D) Malpighian capsule 82. Collecting duct and glomerulus. 71. The glomerulus is formed by Henle's loops and convoluted tubules. (A) capillary network from renal vein. (B) Malpighian body and convoluted tubules capillary network from renal artery. (B) (C) Henle's loop and duct of Bellini. (C) efferent vessel. (D) Which enzyme in the JG cells help to raise capillary network of pulmonary artery. (D) 83. blood pressure if it drops suddenly? Malpighian corpuscle consists of 72. (B) afferent and efferent arteriole Gastrin (A) Amylase (D) glomerulus and renal artery (B) Pepsin (C) glomerulus and podocyte (C) Juxtaglomerular apparatus responds to 84. glomerulus and Bowman's capsule (D) (A) salt fluctuation The feet processes of podocytes rest upon amount of water fluctuation 73. (B) visceral layer of Bowman's capsule. electrolyte fluctuation (A) (C) parietal layer of Bowman's capsule. blood pressure fluctuation (B) (D) basement membrane of glomerular (C) 15.3 Urine Formation capillaries. the internal walls of the proximal Which of the following substances are unable to (D) 85. convoluted tubule. filter through glomerular capillaries? Podocytes are cells which form (A) Glucose 74. Blood cells (B) neck of nephron. (A) wall of glomerular capillaries (C) Proteins (B) Both (B) and (C) wall of Bowman's capsule. (D) (C) wall of Henle's loop. (D) Ultrafiltration occurs due to 86. Filtration slits are present in the walls of osmotic concentration (A) 75. glomerular hydrostatic pressure glomerular capillaries (B) inner layer of Bowman's capsule. (C) circulating blood (B) secretion of nitrogenous waste (D) kidney (C) glomerular (D) vasa recta 87. The hydrostatic pressure in Tubular part of the nephron is differentiated into capillaries is about 76. (A) proximal convoluted tubule 15 mm Hg (A) 55 mm Hg (B) 30 mm Hg loop of Henle (C) 10 mm Hg (D) (B) distal convoluted tubule The osmotic pressure of blood due to the (C) 88. all of these (D) presence of plasma proteins is A 'U'- shaped region of renal tubule is called (A) 15 mm Hg 30 mm Hg (B) (C) 55 mm Hg DCT 10 mm Hg (B) (D) (A) PCT none of these (D) Loop of Henle 89. Filtration pressure in the kidney of man is (C) (A) 45 mm Hg Henle's loop is present in 55 mm Hg (B) 78. (C) 70 mm Hg 10 mm Hg (B) cortex (D) (A) medulla minor calyx (D) What is the glomerular filtration rate (GFR) in 90. (C) pelvis an average man? DCT is present in 79. (A) 75 ml/min medulla 100 ml/min (B) (B) cortex (A) 125 ml/min (C) pelvis 200 ml/min (D) (D) urethra (C)