

INDIAN SCHOOL NIZWA

Class XI-Biology Ch-16 Multiple Choice Questions

- The following substances are the excretory products in animals. Choose the least toxic form among them?
 - Urea
 - Uric acid
 - Ammonia
 - Carbon dioxide
- Filtration of the blood takes place at
 - PCT
 - DCT
 - Collecting ducts
 - Malpighian body
- Which of the following statements is incorrect
 - ADH – prevents conversion of angiotensinogen in blood to angiotensin
 - Aldosterone – facilitates water reabsorption
 - ANF – enhances sodium reabsorption
 - Renin – causes vasodilation
- A large quantity of one of the following is removed from our body by lungs.
 - CO₂ only
 - H₂O only
 - CO₂ and H₂O
 - ammonia
- The pH of human urine is approximately
 - 6.5
 - 7
 - 6
 - 7.5

- Different types of excretory structures and animals are given below. Match them appropriately and mark the correct answer from among those given below:

Excretory structure/ organ	Animals
A. protonephridia	i. Prawn
B. Nephridia	ii. Cockroach
C. Malpighian tubules	iii. Earthworm
D. Green gland or Antennal gland	iv. Flatworms

- (D) i, (C) ii, (B) iii and (A) iv
 - (B) i, (C) ii, (A) iii and (B) iv
 - (D) i, (C) ii, (A) iii and (B) iv
 - (B) i, (C) ii, (A) iii and (D) iv
- Which one of the following statements is incorrect?
 - Birds and land snails are uricotelic animals.
 - Mammals and frogs are ureotelic animals
 - Aquatic amphibians and aquatic insects are ammonotelic animals
 - Birds and reptiles are ureotelic
 - Which of the following pairs is wrong?
 - Uricotelic ———- Birds
 - Ureotelic ———- Insects
 - Ammonotelic ———- Tadpole
 - Ureotelic ———- Elephant
 - Which one of the following statements is incorrect?
 - The medullary zone of kidney is divided into a few conical masses called medullary pyramids projecting into the calyces.
 - Inside the kidney the cortical region extends in between the medullary pyramids as renal pelvis.

- c. Glomerulus alongwith Bowman's capsule is called the renal corpuscle.
- d. Renal corpuscle, proximal convoluted tubule (PCT) and distal convoluted tubule (DCT) of the nephron are situated in the cortical region of kidney

10. The condition of accumulation of urea in the blood is termed as

- a. Renal Calculi
- b. Glomerulonephritis
- c. Uremia
- d. Ketonuria

11. Which one of the following is also known as antidiuretic hormone?

- a. Oxytocin
- b. Vasopressin
- c. Adrenaline
- d. Calcitonin

12. Match the terms given in Column I with their physiological processes given in Column II and choose the correct answer

Column I	Column II
A. Proximal convoluted tubule	i. Formation of concentrated urine
B. Distal convoluted tubule	ii. Filtration of blood
C. Henle's loop	iii. Reabsorption of 70-80% of electrolytes
D. Counter-current mechanism	iv. Ionic balance
E. Renal corpuscle	v. maintenance of concentration gradient in medulla

- a. A-iii, B-v, C-iii, D-ii, E-i
- b. A-iii, B-iv, C-i, D-v, E-ii
- c. A-i, B-iii, C-ii, D-v, E-iv
- d. A-iii, B-i, C-iv, D-v, E-ii

13. Match the abnormal conditions given in Column A with their explanations given in Column B and Choose the correct option

Column A	Column B
A. Glycosurea	i. Accumulation of uric acid in joints
B. Renal calculi	ii. Inflammation in glomeruli
C. Glomerular nephritis	iii. Mass of crystallised salts within the kidney
D. Gout	iv. presence of glucose in urine

Options:

- a. A-i, B-iii, C-ii, D-iv
- b. A-iii, B-ii, C-iv, D-i
- c. A-iv, B-iii, C-ii, D-i
- d. A-iv, B-ii, C-iii, D-i

14. We can produce a concentrated/ dilute urine. This is facilitated by a special mechanism. Identify the mechanism.

- a. Reabsorption from PCT
- b. Reabsorption from Collecting Duct
- c. Reabsorption/ Secretion in DCT
- d. Counter current mechanism in Henle's loop/ Vasa recta

15. Dialysing unit (artificial kidney) contains a fluid which is almost same as plasma except that it has

- a. High glucose
- b. High urea
- c. No urea
- d. High uric acid