

IMPORTANT QUESTIONS ON EXCRETORY SYSTEM



Q1. Match the following-

COLUMN A (type)	COLUMN B (example)
a. ammonotelic	i. Frog
b. osmoconformers	ii. Unio
c. ureotelic	iii. Aquatic invertebrates
d. osmoregulators	iv. Hag fish

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

Q2. Given below are some statements regarding mechanism of urine formation in human kidney. Which of the following is incorrect?

- A. the glomerular filtration rate in kidney is approximately 125 ml per minute.
- B. the counter current system contributes to urine dilution
- C. tubular secretion generally takes place in PCT
- D. the process of ultrafiltration is opposed by colloidal osmotic pressure of plasma

Q3. Given below are some types of rules. Match each rule with their corresponding meanings-

- a. Glucose i. proximal convoluted tubule by active transport
- b. Amino acids ii. proximal convoluted tubule by passive transport
- c. Chloride ion iii. distal convoluted tubule
- d. Urea iv. Narrow ascending loop of Henle

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

Q4. Match the following-

COLUMN A (excretory organ)	COLUMN B (example)
a. Nephridia	i. Earthworm
b. Malpighian tubules	ii. flatworms
c. Flame cells	iii. centipedes
d. Green glands	iv. prawn

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

Q5. Given below are some statements regarding reabsorption processes in human kidney. Which of the following is correct?

- A. The process of water reabsorption in descending limb of loop and collecting duct take place in similar conditions.**
- B. The process of sodium reabsorption in ascending limb of loop and collecting duct take place in similar conditions.**
- C. The process of water reabsorption in descending limb of loop and collecting duct take place in different conditions.**
- D. The process of water reabsorption in descending limb of loop and sodium reabsorption in ascending limb of loop take place in similar conditions.**

Q6. Given below are some terms related to excretion. Match each term with their corresponding meanings or examples-

- a. Vasa recta i. counter current system**
- b. Sebum ii. glucose**
- c. Tubular reabsorption iii. skin**
- d. Micturition iv. Urinary bladder**

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

Q7. Given below are some statements regarding parts present in structure of human kidney. Which of the following is incorrect?

- A. The medullary region is divided into few conical masses known as medullary pyramids which further projects into the calyces.**
- B. The cortical region generally extends between the medullary pyramids as renal pelvis.**
- C. The renal corpuscle consists of glomerulus and bowman's capsule.**
- D. The cortical region of kidney consists of PCT and DCT**

Q8. Match the following-

COLUMN A	COLUMN B
a. Bowman's capsule	i. renal tubule
b. Micturition	ii. water reabsorption
c. ADH	iii. urinary bladder
d. Uricotelic	iv. birds

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

Q9. Given below are some parts of human excretory system. Match each rule with their corresponding function-

- a. Thin ascending limb of loop of Henle i. reabsorption of electrolytes
 - b. Proximal convoluted tubule ii. Ultrafiltration of blood
 - c. Glomerulus iii. Selective reabsorption
 - d. Collecting duct iv. Reabsorption of water to form urine
- A. a-ii, b-iii, c-i, d-iv
B. a-i, b-iii, c- ii, d-iv
C. a-iii, b-ii, c-i, d-iv
D. a-ii, b-i, c- iii, d-iv

Q10. Given below are some terms related to excretion system. Match each rule with their corresponding meanings-

- a. Dysuria i. Painful urination
 - b. Polyuria ii. Deficient urine excretion
 - c. Oliguria iii. Excretion of an excessive amount of urine
 - d. Anuria iv. Absence of urine formation
- A. a-ii, b-iii, c-i, d-iv
B. a-i, b-iii, c- ii, d-iv
C. a-iii, b-ii, c-i, d-iv
D. a-ii, b-i, c- iii, d-iv

ANSWERS

- | | | | |
|-----------|------------|-----------|-----------|
| 1. Ans- A | 2. Ans- B | 3. Ans- B | 4. Ans- B |
| 5. Ans- A | 6. Ans- B | 7. Ans- B | 8. Ans- B |
| 9. Ans- B | 10. Ans- B | | |

SOLUTION

Solution-1

COLUMN A (type)	COLUMN B (example)
a. ammoniotelic	ii. Unio
b. osmoconformers	iv. Hag fish
c. ureotelic	i. Frog
d. osmoregulators	iii. Aquatic invertebrates

Solution- 2

All the statements are correct except B. The glomerular filtration rate in kidney is approximately 125 ml per minute. The counter current system does not contribute to urine dilution instead to the osmoregulation and tubular secretion generally takes place in PCT. The process of ultrafiltration is opposed by colloidal osmotic pressure of proteins present in blood plasma. Hence, B is the correct option.

Solution-3

- a. Glucose i. proximal convoluted tubule by active transport
- b. Amino acids iii. distal convoluted tubule
- c. Chloride ion ii. proximal convoluted tubule by passive transport
- d. Urea iv. Narrow ascending loop of henle

Solution-4

COLUMN A (excretory organ)	COLUMN B (example)
a. Nephridia	i. Earthworm
b. Malpighian tubules	iii. centipedes
c. Flame cells	ii. flatworms
d. Green glands	iv. prawn

Solution- 5

All the statements regarding reabsorption processes taking place in human kidney are incorrect except statement A because the process of water reabsorption in descending limb of loop and collecting duct always occur under similar conditions present in the kidney. Whereas the the process of water reabsorption in descending limb of loop and sodium reabsorption in ascending limb of loop don't occur in same conditions. Hence, A is correct option.

Solution-6

- a. Vasa recta i. counter current system
- b. Sebum iii. skin
- c. Tubular reabsorption ii. glucose
- d. Micturition iv. Urinary bladder

Solution-7

All the statements regarding parts present in structure of human kidney are incorrect except statement B. The medullary region is divided into few conical masses known as medullary pyramids which further projects into the calyces. The cortical region does not extend between the medullary pyramids as renal pelvis. The renal corpuscle consists of glomerulus and bowman's capsule. The cortical region of kidney consists of PCT and DCT. Hence, B is the correct option.

Solution-8

COLUMN A	COLUMN B
a. Bowman's capsule	i. renal tubule
b. Micturition	iii. urinary bladder
c. ADH	ii. water reabsorption
d. Uricotelic	iv. birds

Solution-9

- a. Thin ascending limb of loop of henle i. reabsorption of electrolytes
- b. Proximal convoluted tubule iii. Selective reabsorption
- c. Glomerulus ii. Ultrafiltration of blood
- d. Collecting duct iv. Reabsorption of water to form urine

Solution-10

- a. Dysuria i. Painful urination
- b. Polyuria iii. Excretion of an excessive amount of urine
- c. Oliguria ii. Deficient urine excretion
- d. Anuria iv. Absence of urine formation



CRASH COURSES

Enrol for Ongoing CSIR NET Crash Courses

CSIR NET General Aptitude Course 2021

Complete Study Plan to Boost the CSIR NET Score

What to Expect?

- Live Classes
- Quizzes
- Doubt Sessions
- PYQ Discussion
- Mock Tests
- Chapter-wise Tests
- Revision Tests
- Expert faculty

Course Language

- Bilingual

This Course Includes

-  **80+** Live Classes
-  **1000+** Practice Questions
-  Study Notes & Formula Sheets
-  **10+** Mock Tests

CSIR NET Life Science 2021 Crash Course

Revision Plan to clear the exam

What to Expect?

- Live Classes
- Quizzes
- Doubt Sessions
- PYQ Discussion

Course Language

- English

This Course Includes

-  **200+** Live Classes
-  **3000+** Practice Questions
-  **200+** Study PDFs
-  **10+** Mock Tests

CSIR NET Chemical Science 2021 Crash Course

Complete Revision Plan to ACE the Exam

What to Expect?

- Live Classes
- Quizzes
- Doubt Sessions
- PYQ Discussion
- Mock Tests
- Chapter-wise Tests
- Revision Tests
- Expert faculty

Course Language

- English

This Course Includes

-  **180+** Live Classes
-  **3000+** Practice Questions
-  **200+** Study PDFs
-  **10+** Mock Tests