

Chapter – 16 | Introduction to Excretory System

QUIZ
PART-05

1. Kidney function is mainly regulated by hypothalamus, JGA and partly by:

- A. Heart
 - B. Stomach
 - C. Spleen
 - D. Pancreas
- (A)

Explanation : The heart also helps regulate kidney function through ANF.

2. Osmoreceptors are sensitive to changes in:

- A. Blood volume and ionic concentration
 - B. Bone length
 - C. Muscle contraction only
 - D. Body temperature only
- (A)

Explanation : Osmoreceptors detect changes in blood volume, body fluid volume and ion concentration.

3. ADH is also known as:

- A. Insulin
 - B. Thyroxine
 - C. Vasopressin
 - D. Aldosterone
- (C)

Explanation : Antidiuretic hormone is also called vasopressin.

4. ADH mainly helps in:

- A. Increasing water reabsorption
 - B. Decreasing blood pressure only
 - C. Breaking down proteins
 - D. Forming bile
- (A)

Explanation : ADH increases water reabsorption and prevents excessive urine formation.

5. A fall in GFR activates JGA to release:

- A. Renin
 - B. Bile
 - C. Pepsin
 - D. Saliva
- (A)

Explanation : JGA releases renin when GFR falls.

6. Renin converts angiotensinogen into:

- A. Aldosterone directly
 - B. Angiotensin-I
 - C. ADH
 - D. ANF
- (B)

Explanation : Renin converts angiotensinogen into angiotensin-I, which later forms angiotensin-II.

7. Angiotensin-II causes:

- A. Vasodilation only
 - B. Vessel narrowing and rise in blood pressure
 - C. Decrease in GFR
 - D. Stopping of urine formation
- (B)

Explanation : Angiotensin-II is a vasoconstrictor and increases blood pressure and GFR.

8. Atrial Natriuretic Factor is released by:

- A. Kidney
 - B. Heart
 - C. Liver
 - D. Skin
- (B)

Explanation : Increased blood flow to the heart causes release of ANF.

9. The release of urine from the urinary bladder is called:

- A. Filtration
 - B. Reabsorption
 - C. Micturition
 - D. Secretion
- (C)

Explanation : Micturition is the process of passing urine out of the body.

10. A healthy adult excretes about how much urine per day?

- A. 0.1–0.5 litre
 - B. 1–1.5 litres
 - C. 5–6 litres
 - D. 10 litres
- (B)

Explanation : An adult normally excretes about 1–1.5 litres of urine per day.