

Chapter – 19 | Chemical Coordination and Integration

QUIZ
PART-05

1. Adrenal glands are located:

- A. Above kidneys
- B. Inside brain
- C. In stomach wall
- D. Behind thyroid (A)

Explanation : One adrenal gland lies above each kidney.

2. Adrenal medulla secretes:

- A. Adrenaline and noradrenaline
- B. Insulin and glucagon
- C. T3 and T4
- D. Estrogen and progesterone (A)

Explanation : These are catecholamines.

3. Catecholamines are called:

- A. Fight or flight hormones
- B. Sleep hormones
- C. Growth hormones
- D. Milk hormones (A)

Explanation : They are released during stress or emergency.

4. Adrenaline increases:

- A. Heart rate
- B. Digestion rate only
- C. Urine loss only
- D. Calcium absorption only (A)

Explanation : It increases heartbeat and respiration.

5. Catecholamines convert:

- A. Glycogen into glucose
- B. Glucose into protein
- C. Calcium into phosphate
- D. Water into ions (A)

Explanation : They raise blood glucose during stress.

6. Adrenal cortex has:

- A. Three layers
- B. One layer
- C. Five lobes
- D. No layers (A)

Explanation : It has zona glomerulosa, fasciculata, reticularis.

7. Main glucocorticoid is:

- A. Cortisol
- B. Aldosterone
- C. Melatonin
- D. Oxytocin (A)

Explanation : Cortisol regulates metabolism and inflammation.

8. Aldosterone mainly acts on:

- A. Renal tubules
- B. Mammary glands
- C. Skin melanocytes
- D. Ovarian follicles (A)

Explanation : It controls Na^+ , K^+ and water balance.

9. Undersecretion of adrenal cortex causes:

- A. Addison's disease
- B. Graves' disease
- C. Gigantism
- D. Diabetes insipidus (A)

Explanation : It causes weakness, fatigue and weight loss.

10. Cortisol can suppress:

- A. Immune response
- B. Vision
- C. Hearing
- D. Bone shape only (A)

Explanation : Cortisol has anti-inflammatory and immunosuppressive action.