CHAPTER – 10: Chemical Control and Coordination

- 1. Which gland is known as the "mastergland" of the endocrine system?
 - a) Thyroid gland
 - b) Pituitary gland
 - c) Adrenal gland
 - d) Pancreas
- 2. What is the primary function of hormones?
 - a) Digest food
 - b) Transport oxygen
 - c) Regulate physiological processes
 - d) Produce energy
- 3. Which hormone regulates the body'smetabolic rate?
 - a) Insulin
 - b) Thyroxine
 - c) Adrenaline
 - d) Glucagon
- 4. Which gland is responsible for regulatingblood calcium levels?
 - a) Pituitary gland
 - b) Thyroid gland
 - c) Parathyroid gland

Adrenal gland

- 5. What is the function of insulin?
 - a) Increase blood sugar levels
 - b) Decrease blood sugar levels
 - c) Stimulate digestion
 - d) Regulate metabolism
- 6. Which hormone prepares the body for "fight or flight" responses?
 - a) Insulin
 - b) Thyroxine

- c) Adrenaline
- d) Glucagon
- 7. Which gland is located on top of thekidneys?
 - a) Thyroid gland
 - b) Adrenal gland
 - c) Pituitary gland
 - d) Parathyroid gland
- 8. Which hormone regulates the femalemenstrual cycle?
 - a) Testosterone
 - b) Estrogen
 - c) Adrenaline
 - d) Thyroxine
- 9. Which gland secretes melatonin?
 - a) Pineal gland
 - b) Thyroid gland
 - c) Adrenal gland
 - d) Pancreas
- 10. What is the role of the hypothalamus in theendocrine system?
 - a) Control heart rate
 - b) Regulate blood pressure
 - c) Link the nervous system to the endocrinesystem
 - d) Produce insulin
- 11. Which hormone is produced by the pancreas to raise blood glucose levels? a) Insulin
 - b) Thyroxine
 - c) Glucagon
 - d) Cortisol
- 12. Which of the following hormones is

responsible for milk production in females?

- a) Prolactin
- b) Oxytocin

- c) Estrogen
- d) Progesterone
- 13. Which hormone is responsible for the
 - regulation of water balance in the body?
 - a) Thyroxine
 - b) Aldosterone
 - c) Antidiuretic hormone (ADH)
 - d) Glucagon
- 14. Which hormone controls the sleep-wakecycle?
 - a) Thyroxine
 - b) Melatonin
 - c) Cortisol
 - d) Estrogen
- 15. Which gland produces hormones that regulate growth and development?
 - a) Pancreas
 - b) Adrenal gland
 - c) Pituitary gland
 - d) Thyroid gland
- 16. What is the primary function oftestosterone in males?
 - a) Stimulate the immune system
 - b) Regulate blood sugar
 - c) Promote the development of malesecondary sexual characteristics
 - d) Control the sleep cycle
- 17. Which hormone is secreted during stressfulsituations?
 - a) Insulin
 - b) Glucagon
 - c) Cortisol
 - d) Progesterone
- **18.** Which of the following hormones stimulatesthe thyroid gland to release thyroid hormones?
 - a) Growth hormone (GH)

- b) Thyroid-stimulating hormone (TSH)
- c) Follicle-stimulating hormone (FSH)
- d) Adrenocorticotropic hormone (ACTH)
- 19. Which hormone regulates blood pressureby promoting sodium and water
 - retentionin the kidneys?
 - a) Adrenaline
 - b) Aldosterone
 - c) Insulin
 - d) Thyroxine
- 20. Which hormone is released by the anteriorpituitary and stimulates bone growth?
 - a) Thyroxine
 - b) Growth hormone (GH)
 - c) Cortisol
 - d) Glucagon
- 21. Which hormone is responsible for
 - stimulating uterine contractions duringchildbirth?
 - a) Oxytocin
 - b) Prolactin
 - c) Estrogen
 - d) Progesterone
- 22. Which of the following hormones issecreted by the adrenal cortex?
 - a) Adrenaline
 - b) Cortisol
 - c) Insulin
 - d) Estrogen
- 23. Which gland secretes thyroid-stimulatinghormone (TSH)?
 - a) Thyroid gland
 - b) Pituitary gland
 - c) Adrenal gland
 - d) Pineal gland
- 24. What is the role of the parathyroidhormone (PTH)?

- a) Regulate calcium levels in the blood
- b) Control the sleep-wake cycle
- c) Increase heart rate
- d) Stimulate digestion
- 25. Which hormone is responsible for

stimulating the release of eggs from theovaries?

- a) Luteinizing hormone (LH)
- b) Follicle-stimulating hormone (FSH)
- c) Estrogen
- d) Progesterone
- 26. Which hormone is involved in theregulation of circadian rhythms?
 - a) Thyroxine
 - b) Cortisol
 - c) Melatonin
 - d) Glucagon

27. Which gland is primarily responsible for the regulation of metabolism?

- a) Pancreas
- b) Adrenal gland
- c) Thyroid gland
- d) Pituitary gland
- 28. Which hormone regulates blood calcium levels by increasing calcium absorption

inthe intestines?

- a) Insulin
- b) Glucagon
- c) Parathyroid hormone (PTH)
- d) Cortisol
- **29.** What is the role of glucagon in the body?
 - a) Decrease blood glucose levels
 - b) Increase blood glucose levels
 - c) Regulate water balance
 - d) Stimulate digestion

- **30.** Which hormone is responsible for regulating the immune response and inflammation?
 - a) Glucagon
 - b) Cortisol
 - c) Insulin
 - d) Thyroxine
- 31. Which gland is responsible for secretingadrenaline and cortisol?
 - a) Thyroid gland
 - b) Adrenal gland
 - c) Pituitary gland
 - d) Parathyroid gland
- **32.** Which hormone is involved in the

regulation of blood pressure by promotingwater reabsorption in the kidneys?

- a) Antidiuretic hormone (ADH)
- b) Glucagon
- c) Aldosterone
- d) Adrenaline
- 33. What is the function of the hormoneprogesterone?
 - a) Regulate blood glucose levels
 - b) Promote uterine lining development
 - c) Stimulate the release of growth hormone
 - d) Control the sleep cycle
- 34. Which hormone is primarily involved in thegrowth of bones and muscles?
 - a) Insulin
 - b) Growth hormone (GH)
 - c) Melatonin
 - d) Prolactin
- 35. Which hormone is secreted by the posterior pituitary gland?
 - a) Insulin
 - b) Oxytocin
 - c) Thyroxine

- d) Estrogen
- 36. Which gland regulates the body's biologicalclock?
 - a) Thyroid gland
 - b) Pineal gland
 - c) Pituitary gland
 - d) Adrenal gland
- 37. Which hormone increases the reabsorption of sodium ions in the kidneys?
 - a) Cortisol
 - b) Aldosterone
 - c) Adrenaline
 - d) Insulin
- 38. What is the primary function of thyroxinein the body?
 - a) Stimulate digestion
 - b) Regulate metabolism
 - c) Increase blood sugar levels
 - d) Control blood calcium levels
- 39. Which hormone is responsible for

stimulating the release of testosterone inmales?

- a) Estrogen
- b) Luteinizing hormone (LH)
- c) Progesterone
- d) Follicle-stimulating hormone (FSH)
- 40. Which gland is located at the base of thebrain and regulates the secretion of
 - hormones from other glands?
 - a) Thyroid gland
 - b) Pituitary gland
 - c) Adrenal gland
 - d) Pineal gland
- 41. Which hormone is responsible forstimulating milk ejection during
 - breastfeeding?
 - a) Prolactin

- b) Estrogen
- c) Oxytocin
- d) Progesterone
- 42. Which hormone controls the production ofsperm in males?
 - a) Testosterone
 - b) Luteinizing hormone (LH)
 - c) Follicle-stimulating hormone (FSH)
 - d) Progesterone
- **43.** What is the role of cortisol in the body?
 - a) Increase blood sugar levels
 - b) Decrease blood sugar levels
 - c) Control calcium levels
 - d) Regulate water balance
- 44. Which hormone stimulates the release offollicle-stimulating hormone (FSH) and luteinizing hormone (LH)?
 - a) Oxytocin
 - b) Thyroxine
 - c) Gonadotropin-releasing hormone(GnRH)
 - d) Estrogen
- 45. Which hormone regulates the body's

response to stress and is produced by theadrenal glands?

- a) Insulin
- b) Glucagon
- c) Cortisol
- d) Testosterone
- 46. What is the role of estrogen in females?
 - a) Regulate calcium levels
 - b) Promote development of femalesecondary sexual characteristics
 - c) Stimulate the release of insulin
 - d) Control water balance
- 47. Which hormone regulates the secretion ofsex hormones in both males and

females?

- a) Thyroxine
- b) Follicle-stimulating hormone (FSH)
- c) Glucagon
- d) Prolactin
- 48. What is the primary function of parathyroid hormone (PTH)?
 - a) Regulate blood sugar
 - b) Increase blood calcium levels
 - c) Control metabolism
 - d) Promote growth of bones
- 49. Which hormone controls the rate of metabolism in the body?
 - a) Insulin
 - b) Glucagon
 - c) Thyroxine
 - d) Estrogen
- 50. Which gland is responsible for the secretion of growth hormone (GH)?
 - a) Thyroid gland
 - b) Pituitary gland
 - c) Adrenal gland
 - d) Pancreas

Answer key

1	2	3	4	5
В	С	В	С	В
6	7	8	9	10
С	В	В	Α	С
11	12	13	14	15
С	Α	С	В	С
16	17	18	19	20
С	С	В	В	В
21	22	23	24	25
Α	В	В	Α	Α
26	27	28	29	30
С	С	С	В	В
31	32	33	34	35
В	Α	В	В	В
36	37	38	39	40
В	В	В	В	В
41	42	43	44	45
С	С	Α	С	С
46	47	48	49	50
В	В	В	С	В