CHAPTER 22: CHEMICAL COORDINATION AND INTEGRATION

ONE MARK QUESTIONS:

- 1. Define hormone.(K)
- 2. Mention the name of the neurosecretory cells , which secrete the hormone in the hypothalamus. (K)
- 3. Which of the endocrine gland is regulated by hormones from hypothalamus?(K)
- 4. What are glucocorticoids?(U)
- 5. Which hormone inhibits the release of growth hormone from pituitary?(K)
- 6. Where is hypothalamus located?(K)
- 7. Why vasopressin is called antidiuretic hormone?(U)
- 8. Which of the hormone regulates the 24hour diurnal rhythm?(K)
- 9. What is isthmus?(K)
- 10. Mention one function of thyrocalcitonin.(U)
- 11. Mention the location of thymus gland.(K)
- 12. Name the endocrine gland functional till adolescence and degenerates in adult.(U)
- 13. Where in the body adrenal glands are located.(K)?
- 14. Mention the types of cells in the testis which produce testosterone.(K)
- 15. Name the hormone secreted from the atrial wall of heart.(K)
- 16. Mention the hormone secreted from corpus luteum.(K)
- 17. What is the function of secretin?(K)
- 18. Which hormone stimulates the secretion of bile juice from gall bladder?(U)
- 19. To which chemical group do testosterones and estrogens belong?(U)
- 20. Mention the function of erythropoietin.(U)
- 21. Name the hormone produced by pars intermedia. (k)
- 22. What causes gigantism?(k)
- 23. What happens when growth hormone over secreted?(k)
- 24. What happens when GH is secreted low? (K)
- 25. Which hormone regulates secretion of androgens?(k)
- 26. Name the hormone responsible for regulation and pigmentation of skin.(k)
- 27. Which gland secrete melatonin?(k)
- 28. What is T_3 ? (k)
- 29. What is T_4 ? (k)
- 30. If the menstrual cycle is irregular in a woman, what is the cause.(U)
- 31. Which hormone helps in bone resorption?(U)
- 32. Which is the main glucocorticoid in our body? (k)
- 33. Which is the main mineralocorticoid in our body? (k)

TWO MARKS QUESTIONS:

- 1. Mention two types of hormones secreted by hypothalamus regulating the secretion of pituitary based on their mode of action.(U)
- 2. Distinguish between endocrine and exocrine gland.(U)
- 3. Enlist the target organ of hormone MSH and ACTH. (A)
- 4. Write a note on how the function of anterior pituitary is regulated by a hormone.(A)
- 5. Mention the two regions of pituitary based on the anatomy.(K)
- 6. Name the two portions of adenohypophysis.(K)
- 7. Mention the hormones of neurohypophysis.(K)

- 8. What is the function of neurohypophysis hormones?(U)
- 9. Mention the two regulations by melatonin.(A)
- 10. What are the symptoms seen in the growing baby of hypothyroidism pregnant woman?(A)
- 11. List the functions of thyroid hormone.(U)
- 12. Parathyroid hormone is called hypercalcemic hormone. Justify.(S)
- 13. Write a short note on functions of thymosin.(U)
- 14. Name two types of tissues in adrenal gland.(K)
- 15. Mention two hormones secreted from adrenal medulla.(U)
- 16. Write a note on functions of aldosterone.(U)
- 17. Mention the hormones secreted from : α cells and β cells of islets of Langerhans(K)
- 18. Write the difference between insulin and glucagon.(S)
- 19. Distinguish between hypoglycaemia and hyper glycaemia.(S)
- 20. What is TCT? What is its function? (U)
- 21. Why PTH is considered a hypercalcemic hormone? (U)
- 22. What are catecholamines? (U)
- 23. Which hormones are secreted during stress? (K)
- 24. Which is hyperglycaemic hormone?
- 25. Why glucagon is called hyperglycaemic hormone?
- 26. What is CCK? What are its functions?
- 27. It is essential to include Iodine in our diet. Justify.(A)

THREE MARKS QUESTIONS:

- 1. Name the disorder caused by the deficiency of the following hormones. (U)
 - a. Thyroxine b. Insulin c. Growth hormone
- 2. Explain hormones of fight and flight.(U)
- 3. Explain the role of thymosins.(S)
- 4. Enlist three layers of adrenal cortex.(K)
- 5. Enlist the functions of corticoids. (U)
- 6. Explain the role of ovarian hormones. (U)
- 7. Which hormonal deficiency is responsible for the following
 - a. Diabetes mellitus b. Goitre c. Cretinism
- 8. Write the effects of hypothyroidism in pregnant woman.

FIVE MARKS QUESTIONS:

- 1. Name the endocrine gland in which the following hormones are synthesized. Write one function for each hormone. (A)
 - a. Melatonin
- b. Glucagon
- c. Thyrocalcitonin

- d. Progesterone
- e. Cortisol
- 2. What is adenohypophysis? List any six hormones secreted from it.(K)
- 3. Adrenalin and Noradrenalin are called as fight flight hormones .Justify.(A)
- 4. Mention the type of gland and cell type from which insulin is secreted add a note on its action.(A)
- 5. Explain the mechanism of protein hormone action with a diagrammatic representation.(S)
- 6. Explain the mechanism of steroid hormone action with a diagrammatic representation.(S)
- 7. Explain the role of different endocrine cells present in gastrointestinal tract.(S)
- 8. Define hormone. Explain four types of hormones based on their chemical nature. (U)
- 9. Explain the role of ANF secreted by atrial wall.(U)

- 10. Write the hormone secreted by the following(K)a. G-I tractb. Kidneyc. Atriumd. Pancrease. Ovary
- 11. Write one physiological function of a. LH b. GH c. Oxytocin d. Vassopressin e. TSH (K)
- 12. Write a note on testis as an endocrine gland.(K)
- 13. Write a note on ovary as an endocrine gland. (K)