

SZ-S 223

- 6.1. Chemical nature and gross features of hormones
- 6.2. Hormone levels in circulation and other body fluids
- 6.3. Biosynthesis of steroid hormones *de novo*
- 6.4. Biosynthesis and amino acid derives small size hormones (eg: T4 Epinephrine, etc.)
- 6.5. Biosynthesis and simple peptide hormones, Pre- and Pro-hormones
- 6.6. Co-translational and post-translational modifications of hormone structure

Hormones and behaviour

Hormonal control of growth and reproduction in vertebrates

Neuro-endocrine integration in vertebrate

Practical :

1. Cockroach – *Carpura cardiaca* & *Carpura allata*
2. Prawn – Nervous system, Y-organ and androgenic organ, ovaries
3. Crab – Nervous system, Y-organ & androgenic organ, ovaries
4. Sepia – Optic glands
5. Fish – Endocrine glands: Pituitary, Pancreas, adrenals, testis and ovaries

Suggested Books :

1. E.J.W. Barrington, General and Comparative Endocrinology, Oxford, Clarendon Press.
2. P.J. Bentley, Comparative Vertebrate Endocrinology, Cambridge University Press.
3. R.H. Williams, Textbook of Endocrinology, W.B. Saunders
4. C.R. Martin, Endocrine Physiology, Oxford University Press
5. A Gorbman et. al. Comparative endocrinology, John Wiley & Sons.