

S2 S 223

SYLLABUS

2

8. GENERAL AND COMPARATIVE ENDOCRINOLOGY

Unit - I :

1.0 Aims and scope of endocrinology

- 1.1. Hormones as messengers
- 1.2. Hormones and eukaryotic metabolic regulation
- 1.3. Classification of hormones
- 1.4. Discovery of hormones
- 1.5. Experimental methods of hormone research

2.0. Phylogeny of endocrine glands (Pituitary, pancreas, adrenals, thyroid)

3.0. Ontogeny of endocrine glands

Unit - II :

4.0. Concept of Neurosecretion and Neuro-endocrine system in invertebrate groups

4.1. Neuro-endocrine mechanisms of moulting and growth in crustaceans

4.2. Hormonal control of reproduction and moulting in insects

4.3. Hormonal control of reproduction in Mollusca and Echinodermata

Unit - III :

5.0. General principles of hormone action

5.1. Concept of hormone receptors

5.2. Nature of hormone action, Steroid and protein hormones

5.3. 1st messenger, 2nd messenger concept

5.4. Hormonal control of homeostasis

5.5. Hormonal regulation of carbohydrate metabolism

5.6. Hormonal regulation of nitrogen and lipid metabolism

Unit - IV :

6.0. Hormone structure and Biosynthesis of hormones

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QUESTION PAPERS.
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