CLASS X/ BIOLOGY

CONTROL AND COORDINATION

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CHEMICAL COORDINATION IN ANIMALS

The endocrine system brings about chemical coordination by complex organic compounds called hormones.

Hormones are define as chemical messengers that a release to the blood stream and have a specific effect of body function on other structure with in the body. imulus is known as negative stimulus.

CHARACTERISN OF HORMONES:

1. Hormones are secrete in small amount by the endocrine glands.
2. Hormones are secrete directly in the blood and no special ducts are involved. Hence they are known as duct less glands.
3. Hormones affect only particular tissues called target tissues.
4. Hormones coordinate activities of the body and its growth.

TYPES OF GLANDS

There are two types of glands in the body –

1. Endocrine Glands
2. Exocrine Glands

FUNCTION OF ENDOCRINE HORMONES

i) **Regulation** – Hormones control the internal environment of the body by regulating the secretion and excretion of various chemicals in the blood

ii) Response – Hormones help the body to respone in changes in the environment and scope to the physical and psychological stress.

iii) Reproduction – Hormones control the female reproductive cycle and other reproductive processes essential to conception birth it also controls the development of sex cells, reproductive organs and secondary sexual characteristics in both sexes.

iv) Growth and development – Hormones are essential for proper growth and development of a body of foetus and adulhood