HOMEOSTASIS

HOMEOSTASIS:

- It is the state of steady indomal chemical and physical conditions maintained by living systems.

- It is curial for the survival of organisms.

- The body mainteins homeostasis by controlling a host of variables ranging from body temporature, blood pH, blood glucose levels to fluid balaxe, sodium, potassium and valuum ion concentrations

Regulation of Homeostasis:

The ugulation of homeostasis depends on:

- · Effector
- · Receptor
- . Control Center

Effector: The effector susponds to the commands of the control centre. It could either oppose on enhance the stimulus.

Receptor: The leeptor is the sensing componend susponeible for monitoring and susponeling to changes in the external or indoinal environment

from the receiptor.

Example:

Receptor - Cutaneous receptors of the skin Control - Brain centre

Effector - Blood versels and smeat glands in the skin.

temperature. If the external temperature wises or schops below the equilibrium, the control centur sends signals to the blood vessels and smeat glands in our skin to head accordingly. If the temperature is too hot, the blood wessels dialots and scause as always in the body temperature. Moreover, smeat glands puoduce sheat to accompanion vasodilation. If the external temperature is too cold, the blood vessels constrict and enable the body to betein heat.

- Homeostersis is a hormone devinen mechanism controlled by meny hormons like:

TSH, tema iodo thyroxine, ACTH, Aldostenone, ADH, Rennin, Angiotensin II and Insulin,