

## ZAMANI COLLEGE, KADUNA.

SS3 BIOLOGY STUDY PACK TERM 1, 2014-2015.

### TOPIC: HORMONES

- ✓ Hormone is an organic / chemical substance
- ✓ Produced in minute quantity in one part of an organism
- ✓ Transported to the site of action / target organs where it exerts specific effect or controls body metabolism.

In animals, hormones are produced in ductless glands and transported by blood stream.

In plants, there are no special organs that produce hormones, rather they are formed at the root and shoot tips.

Endocrine glands in the body:

- Pituitary gland
- Thyroid gland
- Adrenal gland
- Ovaries
- Testis
- Pancreas

Now study the following sub-topics.

- Important hormones and their functions
- Hormones of pituitary gland
- Hormones of thyroid gland
- Pancreatic hormones
- Adrenal hormones
- Male and female sex hormones
- Plant hormones (auxin, gibberellins, cytokinins, ethane, abscisic acid)

**Refer to: Modern Biology pgs 391- 401**

Now answer the following questions:

1. State why the pancreas is regarded as exocrine and endocrine gland.
2. Name the location of the endocrine glands in animals listed above.
3. What is a ductless gland?
4. Name various hormones in animals and state at least one function each.
5. Make a list of plant hormones and state five effects each.
6. Explain briefly how auxins influence tropism in plants.

**Note:** Answers should be sent in **MS word format to the school email** while all drawings should be submitted to the school administrative office directly. However, where students wish to submit all study pack answers in written forms, it will be also accepted.