

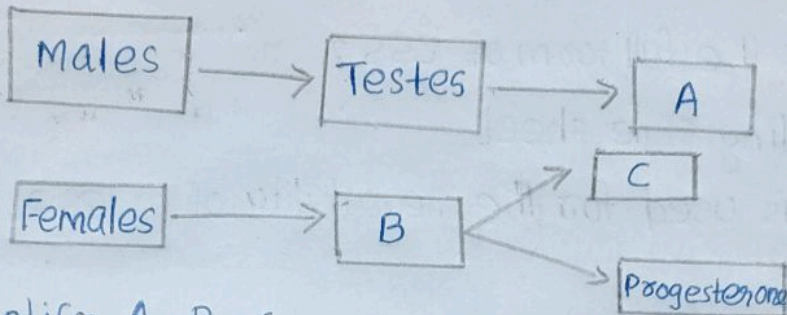
11/9/2020  
FRIDAY

# BIOLOGY

STD-X  
class - 22

## Assignment

1) Observe the illustration and answer the following questions.



a) Identify A, B, C

b) What is the function of A?

Ans) a) A - Testosterone

B - Ovary

C - Estrogen

b) Testosterone - Controls secondary sexual characters [change in voice, growth of hair, development of reproductive organs] and sperm production.

2) Role of Hypothalamus as a Prime Controller?

Ans) Hypothalamus controls the anterior lobe of the pituitary gland through the releasing hormones and inhibitory hormones. Hypothalamus determines the type of tropic hormones to be secreted by the pituitary gland. The posterior lobe of the pituitary is only a storage centre for the hormones produced by hypothalamus.

3) Text book page no. 55

Analyse the illustration and complete the table appropriately.



Ans)

Gland	Location	Hormones
Hypothalamus	Just below the thalamus in the brain	Releasing hormone, inhibitory hormone
Pituitary	Below the hypothalamus	TSH, ACTH, GH, Somatotropin, Prolactin, oxytocin, vasopressin
Thyroid	Below the larynx in the throat	Thyroxin, calcitonin
Parathyroid	Behind the thyroid gland	Parathormone
Thymus	Below the sternum close to the lungs	Thymosin
Pancreas	close to the liver and duodenum	Insulin, Glucagon
Ovary	on either side of the vertebra in the abdominal cavity	Estrogen, Progesterone
Testis	within the scrotal sac outside the abdominal cavity	Testosterone
Adrenal	Above the kidneys	Adrenaline, Noradrenaline, cortisol, Aldosterone, sex hormones
Pineal gland	In the midbrain	Melatonin