CHAPTER 7 : BODY COORDINATION

7.1 Human Endocrine System

1. The ..... system is one of the system in the body that coordinates body function using chemical substance.

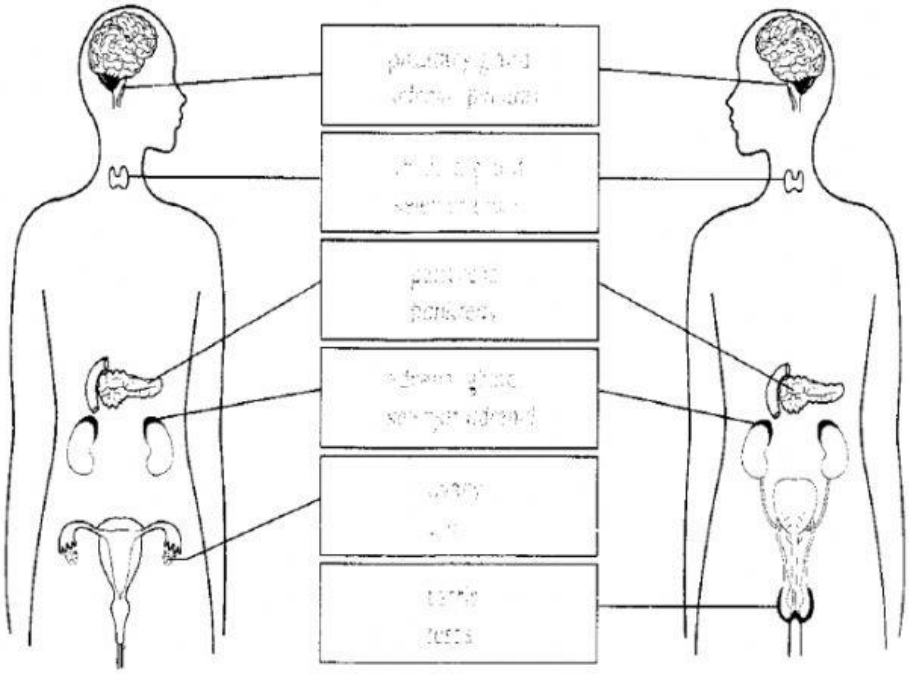
2. The chemical substance secreted by the endocrine glands is .....

3. Endocrine glands are ductless glands that secrete hormone directly into the ..... circulatory system to be carried to target organs.

4. Characteristics of hormone:

- a type of .....
- secreted in ..... amount into the blood circulation system.
- has ..... effect
- ..... response
- has a specific target ..... / function.

5. Main endocrine glands in the body:



6.Functions of hormones and effect of hormonal imbalance.

ENDOCRINE GLAND	HORMONE	FUNCTION	UNDER SECRETION	OVER SECRETION
Pituitary Gland	.....	Controls the quantity of water reabsorbed by the kidneys.	-Dehydration because of poor water reabsorption by kidney. -Excessive thirst - Excessive urine Known as	-..... water absorption- Increases blood volume and blood pressure -Headache& dizziness.
	.....	- Stimulates growth -Maintain healthy body composition in adults -Maintains muscle and body mass of adults	.....	.....
Thyroid	.....	-Controls rate of body metabolism -Controls physical and mental development	-..... rate of metabolism - stunted physical and mental development. -lethargic/fatigue -tendency to become fat - inability to tolerate cold. -Known as	- ..... rate of metabolism. -always feeling hot -sleeping difficulties -tendency to become thin -protruding eyeballs -Known as ....

ENDOCRINE GLAND	HORMONE	FUNCTION	UNDERSECRETION	OVERSECRETION
Adrenal	.....	Prepares body to act in emergency situation.		
Pancreas	.....	-Controls glucose level in blood by converting excess glucose into glycogen to be stored in the liver.	-Increase in glucose levels -Known as	-Low glucose levels -Known as .....
Ovary	.....	-Controls female secondary sexual characteristics -Stimulates ova production -Prepares uterus for embryo implantation.	Lack of female secondary sexual characteristics	- Female characteristics in men
	.....	-Maintains thickness of uterus wall during pregnancy	-menstrual problem -headache -miscarriage	
Testis	.....	- Controls male secondary sexual characteristics. -Stimulates sperm production.	Lack of male secondary sexual characteristics. - Low sperm count -Delay in reaching puberty.	-Male characteristics in women.