



MALAPPURAM EDUCATIONAL DISTRICT

Class 10 Biology Unit-3 Chemical Messages for Homeostasis
Model Worksheet - 2

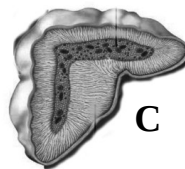
1. Find out the missing parts :

- a. Deficiency of insulin : Loss of glucose through urine : Diabetes mellitus;
Deficiency of ---?---- : Loss of water through urine : -----? ----- .
- b. Deficiency of STH : Stunted physical growth : Dwarfism ;
Deficiency of ---?---- : Stunted physical and mental growth : ----- ? ----- .

2. Complete the following table of endocrine glands:

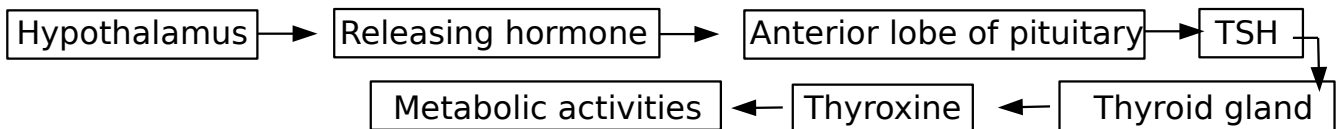
A- Gland	B- Hormone	C- Function
----- ? -----	Oxytocin	Facilitating child birth
Pineal	----- ? -----	Rhythm of daily activities
Adrenal	Aldosterone	----- ? -----
----- ? -----	Thymosine	----- ? -----

3. Observe the figures:



- a. Identify and name the glands A, B and C.
- b. Choose the gland which secretes the 'emergency hormone'.
- c. To which gland may occur goitre ? Give reason for this condition.

4. Analyse the flowchart and make a brief description.



5. Write any two symptoms each of the following diseases:

- a. Acromegaly
- b. Myxoedema

6. Answer the following questions:

- a. Why is hypothalamus considered as the prime controller of endocrine system ?
- b. What is the normal level of calcium in blood ? How is it maintained ?
- c. Quantity of urine decreases during summer season. How can you justify this ?