

1. Mention the three types of cells of the islets of Langerhans and the name of the hormone they secrete.
2. Mention the two principal ways in which insulin acts :
3. Name the following conditions :
  - (i) Passage of much glucose in urine
  - (ii) Overdose of insulin makes the diabetic patient unconscious
4. List any three symptoms of diabetes mellitus.
5. Name the two categories of hormones secreted by adrenal cortex.
6. List any two effects of adrenaline.

Fill in the blanks with the correct alternative :

- (i) Thyroid is located close to .....  
**(larynx/kidney)**
- (ii) Cretinism is caused due to .....  
of thyroxin. **(undersecretion/oversecretion)**
- (iii) Oversecretion of thyroxin causes .....  
goitre. **(simple/exophthalmic)**
- (iv) The condition showing swelling in face  
and hands and sluggishness due to  
hypothyroidism is called .....  
**(cretinism/myxoedema)**
- (v) The hormone concerned with facing  
dangers is ..... . **(thyroxine/  
cortisone/adrenalin)**
- (vi) Cortex and medulla are the two regions  
of ..... . **(thyroid/adrenal)**
- (vii) One of the effects of increased secretion  
of adrenaline is ..... . **(Dry mouth/  
slowing of heart beat/arterioles of the  
digestive system dilate)**

1. Mention if the following statements are true (T) or false (F). If false, rewrite the correct word (not words) striking out the single wrong one.

- (i) Pituitary is of the size of a lemon.
- (ii) Pituitary has three lobes — anterior, posterior and intermediate.
- (iii) Oversecretion of growth hormone in adult causes gigantism.
- (iv) Vasopressin secreted by anterior lobe controls reabsorption of water from kidney tubules.

2. Write the full forms of :

- (i) TSH
- (ii) LH
- (iii) ACTH
- (iv) ADH

3. What causes the following ?

- (i) Acromegaly
- (ii) Diabetes insipidus

8. Complete the following table by filling in the blanks numbered 1 to 7.

Gland	Hormone secreted	Effect on body
(1) .....	(2) .....	Regulates basal metabolism
Pancreas ("beta" cells)	(3) .....	Controls blood sugar
(4) .....	(5) .....	Increases heart beat
(6) .....	Thyroid stimulating hormone	(7) .....