**Corrigé type matière physiologie endocrinienne**

**Master II Immunologie moléculaire et cellulaire**

**Q1 Answer with true or false 4points**

**1**- The pars tuberalis in the adenohypophyse is the portion in which the majority of the hormone production occurs. FALSE

**2-**The **hypophyseal portal system**, allows hypothalamic hormones to be transported to the posterior pituitary. FALSE

**3**-The chief cells of the parathyroid gland is release PTH when plasma–calcium levels increase. FALSE

**4**- The hormone calcitonin is secreted by parathyroid gland and stimulates the activity of osteoblastes. FALSE

**Q2 Complete these sentences 10,5 points**

1-Growth hormone indirectly mediates growth and protein synthesis by triggering the liver to produce a group of proteins called **insulin-like growth factors (0,5 ) (IGFs) (0,5)**…or somatomedine A ( IGF1) and somatomedine C ( IGF2 )

2-prolactin secretion is inhibited by prolactin-inhibiting hormone **(0,5 )** (PIH) **(0,5 )**…

3-Puberty is initiated by releasing hormones secreted from hypothalamus called gonadotropin releasing hormone 0,5 ( GnRH0,5) which stimulates …Follicle stimulating hormone **(0,25 )** (FSH) (**0,25 )** and **Luteinizing hormone (0,25 ) (LH) (0,2 5 )**…..

4-Adrenocorticotropic Hormone (ACTH) which cleaves in the intermediate lobe give some proteins called -αMSH**(0,5 )** (1-13AA**(0,5 )**), -ACTH CLIP1**(0,5 )**( 19-39 AA) **(0,5 )** and -β LPH**(0,5 )** ( 42-132 AA) **(0,5 )**.

**5**-During the binding of insulin to its receptor it will activate the Phosphorylation **(0,5 )** of the domain tyrosine kinase **(0,5 )**… in the …BETA…**(0,5 )**…. subunit.

**6**- The convertion of the angiotensin I in the …lung…**(0,5 )**…. to  angiotensineII…**(0,5 )**…is done by the enzyme dipeptidyl carboxypeptidase…**(0,5 )**…

**7**- The catabolisme of catecholamines is called acide 3 methoxy 4 hydroxymandelique **(0,5 )**or ( acide vanilmandélique VMA)……………………………………

**Q3 Write the full names of these abbreviations 2points**

1-TSH … Thyroid-Stimulating Hormone . 1 point

2-ACTH…… Adrenocorticotropic Hormone . I take it off this abbreviation

3- FSH ………Follicle stimulating hormone… 1 point…

Q4 A – Figure 1 1,5 points

1 : 3 iodotyrosine ( 0,25) MIT ( 0,25) 2 : 3,5 iodotyrosine ( 0,25) DIT( 0,25) 3 : 3,5,՜ 3 triiodothyronine ( 0,25) T3( 0,25).

Figure 2 : 2points

4 : 7 dehydrocholesterol ( 0,5 ) 5 : Vitamin D3 ( 0,25) ( cholecalciferol) ( 0,25)

6 : reduced proinsulin ( 0,5 ) 7 : Cpeptide ( 0,25 ) 8 : insulin (0,25 )