

- The anterior pituitary gland is connected to the hypothalamus by:
- A. hypothalmoanterior connective tissue
- B. skeletal muscle
- C. pituitary fat tissue
- D. hypothalmoanterior nerves
- E. hypothalmoanterior pituitary portal vessels
- Answer: E

- Which hormone isn't released from anterior Pituitary gland:
- A. FSH
- *B. LH*
- C. Dopamine
- D. Prolactin
- *E. ACTH*
- Answer: C

- Which of the following isn't considered a physiologic factor of Aldosterone secretion:
- A. Angiotensin I
- B. Angiotensin III
- C. Angiotensin II
- D. Elavated potassium concentration
- *E. ACTH*
- Answer: A

- Which of the following is INCORRECT concerning PTH, calcitonin, and vitamin or D:
- A. Both calcitonin & amp; PTH are produced in the follicle cells of the thyroid gland
- B. Parathyroid hormone is essential for life
- C. PTH is the most important hormone in the control ot calcium metabolism.
- D. Vitamin D deficiency is the cause of rickets
- E. Vitamin D is actually a hormone that increases calcium absorption in the intestne
- Answer: A

- All of the following are related to glucose regulation, EXCEPT:
- A. glucagon
- B. insulin
- C. T4
- *D. GH*
- E. Estrogen
- Answer: E

- Insulin increases glucose uptake in all of these following tissues ,EXCEPT:
- A. cardiac muscle
- B. smooth muscles
- C. leukocytes
- D. erythrocytes
- E. islets of Langerhans
- Answer: D

- Which of the following regarding vitamin D is INCORRECT:
- A. Vitamin D2 & D3 are prohormones
- B. Both undergo identical processing
- C. Both are needed for health
- D. D2 & D3 have almost the same efficiency
- E. 24,25-OH2 D is used to dispose of excess vitamin D
- Answer: D

- Which one of the following about amylin and insulin hormones is not true:
- A. They are co-packaged in the same granules
- B. Consequently, amylin is normally co-secreted with insulin
- C. Plasma concentrations of the two hormones display a similar diurnal pattern of low fasting levels and high levels in response to meals
- D. Amylin hormone complements the actions of insulin in post prandial glucose homeostasis via several mechanisms
- E. Patients with type 1 diabetes have deficiency of insulin with normal level of amylin
- Answer: E

- About Calcium serum regulation, what is the wrong statement:
- A. its concentration is highly regulated and should be within the range of 9-11mg/dL
- B. Calcium blood levels are regulated by PTH and hormone D only
- C. Bone is the main reservoir for Calcium
- D. Heart stop and breathe cease when there is a slight difference
- E. Significant differences from the normal level of calcium in the blood can be fatal
- Answer: B

- The chemical nature of vitamin D is:
- A. Tyrosine derivative
- B. Tripeptide
- C. Steroid
- D. Peptide
- E. Protein
- Answer: C

- Which one of the following hormones is the most important hyperglycemic hormone:
- A. growth hormone
- B. insulin
- C. epinephrine
- D. cortisol
- E. glucagon
- Answer: E

- Which of the following hormones DOES NOT USE CAMP as a second messenger:
- A. PTH
- B. calcitonin
- C. oxytocin
- D. glucagon
- *E. TSH*
- Answer: C (important)

- Which of the following hormones need calcium for its secretion:
- A. GH
- *B. T*4
- C. cortisol
- D. insulin
- E. somatomedren
- Answer: D

- Which hormone is required for normal function for the growth hormone:
- A. Insulin
- B. Somatomedin
- C. T3
- D. T4
- E. RT3
- Answer: A

- Which of the following are not gonadotropins:
- A. Follicle-stimulating hormone (FSH)
- B. Human chorionic gonadotropin (hCG)
- C. Growth hormone
- D. Luteinizing hormone (LH)
- *E. T*SH
- Answer: E

- This is the largest hormone in Size:
- A. Angiotensin I
- B. Thyroxine
- C. Dihydrotestosterone
- D. Glucagon
- E. Vasopressin
- Answer: D

- Regarding parathyroid glands, which is TRUE:
- A. PTH is secreted in response to high glucose
- B. PTH is secreted in response of high T4
- C. PTH is secreted from the thyroid glands in response to a low plasma concentration of ionized (free) calcium
- D. PTH is secreted from the parathyroid glands in response to a high plasma concentration of ionized (free) calcium
- E. PTH increases rates of dietary calcium absorption
- Answer: E

- Regarding Lacotrophs, which is true:
- A. they are the Site of production of T4
- B. they are the Site of production of TH
- C. they are the Site of production of prolactin
- D. they are the Site of production of growth hormone
- E. they are the Site of production of T3
- Answer: C

- The following hormones have permissive effects:
- A. Testosterone and estrogen
- B. Oxytocin and vasopressin
- C. Insulin and glucagon
- D. Epinephrine and serotonin
- E. Thyroxine and epinephrine
- Answer: E

- Regarding the steps involved in Synthesis of thyroid hormones which is false:
- A. T4 and T3 are released into the circulation
- B. Newly formed Ig is transported to the cell surface in small apical vesicles
- C. T4 and T3 are released into the Golgi bodies
- D. lodide is taken up at the basolateral cell membrane
- E. Polypeptide chains of Tg (thyroglobulin) are synthesized in the rough endoplasmic reticulum
- Answer: C

- Regarding Thyrotrophs, which is true:
- A. they are the Site of TH synthesis
- B. they are the Site of growth hormone synthesis
- C. they are the Site of T3 synthesis
- D. they are the Site of TSH synthesis
- E. they are the Site of prolactin synthesis
- Answer: D

- Regarding thyroid gland, which is FALSE:
- A. The thyroid gland secrets growth hormone
- B. The thyroid gland secrets thyroxine
- C. Every tissue in the body is affected in some way by thyroid hormones
- D. The thyroid gland secrets t Calcitonin
- E. The thyroid gland secrets triiodothyronine
- Answer: A

- Which one of the following is not part of the portal system:
- A. The primary capillary plexus
- B. hypophyseal portal veins
- C. Superior hypophyseal arteries
- D. hypothalamohypophyseal tracts
- E. The secondary capillary plexus
- Answer: C

- Regarding VITAMIN D3, which is false:
- A. Vitamin D3 inhibits intestinal calcium absorption
- B. Vitamin D3 plays an important role in maintaining calcium homeostasis
- C. Vitamin D3 Enhances intestinal calcium absorption
- D. Vitamin D3 enhances calcium reabsorption in the kidney
- E. Vitamin D3 active metabolite is named 1,25-(OH)2D3
- Answer: A

- Which of the following sentences is true:
- A. Insufficiency of thyroid hormones result in Primary hyperthyroidism
- B. Cretinism is a condition of stunted mental growth due to untreated congenital deficiency of thyroid hormones
- C. Myxedema is a term used with severe hyperthyroidism
- D. Thionamides are the primary drugs used to increase thyroid hormone production
- E. Cretinism is a condition of stunted mental growth due to untreated congenital increase of thyroid hormones
- Answer: B (maybe not required)

- Insulin increases the entry of glucose into:
- A. The mucosa of the small intestine
- B. All tissues
- C. Most neurons in the cerebral cortex.
- D. Renal tubular cells
- E. Skeletal muscle
- Answer: E

- Which one of the following cell types of the anterior pituitary gland has the second largest percentage of the total population of cells:
- A. Gonadoropes
- B. Somatotropes
- C. Lactotropes
- D. Corticotropes
- E. Thyrotropes
- Answer: D

- Which one of the following is the indirect function of the growth hormone:
- A. Stimulation of cortisol secretions
- B. Increased parathyroid glands function
- C. Increased blood glucose level
- D. Gluconeogenesis
- E. Lipolysis
- Answer: B

- Which one of the following about thyroid hormones is NOT true:
- A. Are attached to the thyroglobulin in the colloid
- B. The storage in the gland is sufficient for the human being for more than two months
- C. Just T3 enters the nucleus
- D. Bound by plasma protein at different percentage
- E. Are not released from the thyroid gland immediately after synthesis
- Answer: C

- Which one of the following inhibits ADH secretion:
- A. Hypoglycemia
- B. Pain
- C. Opiates
- D. Alcohol (Ethanol)
- E. Nicotin
- Answer: D

*Best of Luck* < *3*