

Medicine – Yarmouk University

# Endocrine System / Final Exam

## Elixir Batch

(81 questions out of 90 questions)

**1.Somatostatin:**

inhibit both glucagon and insulin

**2. A drug for hypoparathyroidism:**

calcium carbonates

**3. The drug of choice to treat acromegaly:**

pegvisomant

**4. All of the following are true except:**

Exenatide acts as GLP1 *antagonist*

**5. Contraindicated drug for patient with diabetic ketoacidosis:**

Biguanides

**6. Not indicated in ovulation treatment:**

menotropin is given 3times/week

**7. Case: Peptic ulcer, hypercalcemia, galactorrha:**

MEN1 syndrome

**8. All of the following are side effects of Glucocorticoids, except:**

hypercalcemia (these drugs causes hypocalcemia which leads to osteoporosis)

**9. All of the following are true except:**

30% of glucagon are metabolized by conjugation to serine and cysteine

**10. Does not have four rings in its structure:**

vitD3

**11. Does not inhibit insulin:**

Ach

**12. All of the following are true except:**

loss of diurnal variation in secretion of cortisol is *preserved* in Cushing syndrome and in patients under stress

**13. All of the following are true except:**

Anorexia nervosa lowers GH

**14. True about NB:**

high VMA in urine

**15. All of the following are risk factors for DM2, except:**

- obesity
- hypertension
- family history
- Habitual physical inactivity
- ++congenital predilection

**16. All of the following are true except:**

total deaths from diabetes are projected to rise by 100% in the next 10 years.

**17. All of the following are true except:**

BMI and obesity lead to some *communicable* diseases

**18. In controlling obesity, All of the following are true except:**

shift from unsaturated to saturated fat

**19. Treat hyperprolactinemia:**

Bromocriptine

**20. Stalk effect will not lead to:**

inability to lactate

**21. About Eplerenone drug, all of the following are true except:**

can cause gynecomastia

**22. Case: Hypoglycemia, hyperinsulinemia, pancreatic mass , why he couldn't control his hypoglycemia?**

Inhibition of glucagon

**23. All of the following are true except:**

advanced Glycation End products lead to direct effect on *tissue damage*

**24. All of the following are true except:**

Ovarian granulosa cells convert Estradiol to testosterone

**25. Calcium exerts its effect in synthesis and secretion of PTH by binding to:**

transmembrane receptor with Gs-protein signal pathway

**26. Action by cGMP:**

nitric oxide

**27. D3 is converted to 1,25(OH)2D3 by series of enzymatic reactions in:**

kidney and liver

**28. All of the following are true except:**

the center of adrenal gland is known as zona fasciculata.

**29. Aldosterone is secreted by:**

zona granulosa

**30. True:**

-Epinephrine and thyroid hormones have the same effect on the metabolism and blood pressure

- norepinephrine is found 4 times more than epinephrine

++ T-hydroxylase is the rate limiting enzyme in synthesis of E and NE

**31. Not a hormone:**

neurophysin

**32. Not produced by pituitary basophilic cells:** GH

**33. Not one of the hypophysiotropic hormones:** GH

**34. Comatosed patient has to have thirst, polyurea, protinuria, no ketouria:**

non insulin dependent DM

**35. Case: A girl with Purpura, pharyngitis, hypoglycemia, hypotension, hyponatremia, hyperkalemia:**

N.menigitis

**36. Case: Change in facial appearance, increased shoe size:**

acromegaly

**37. Adrenal gland develops from:**

both mesoderm and ectoderm

**38. Not a test for adrenal insufficiency:**

clonidine test

**39. All of the following are true except:**

Desmopressin is administrated intranasally, and vasopressin orally

**40. To facilitate delivery:**

oxytocine

**41. All of the following are true except:**

estrogen decreases uterus sensitivity for oxytocine

**42. levothyroxine dose for healthy person with hypothyroidism:**

50-100 mcg/day

**43. Propyathiouracil is used for:**

Hyperthyroidism

**44. True:**

fatty acid side chain gives long acting insulin its properties

**45. Androgen reduction to form testosterone can occur in Adrenal gland:**

true

**46. True:**

alpha subunit disassociate from the complex with GTP

**47. How many second messengers cAMP are required to release Regulator molecule for the catalytic molecules in PKA?**

2 for one regulator / 4 for 2 regulators

**48. case: a child with bone deformity, low vitamin D3, hypocalcemia, what is the most significantly impaired:**

increased parathyroid hormone

**49. Treat pregnant women who has Cushing syndrome by:**

Metyrapone

**50. ADH acts on kidney cells by:**

increase water channels in the luminal membrane

**51. Determinant of the concentration of a hormone at the target tissue; all are true except:**

- Rate of hormone synthesis and secretion
- position of target cell
- binding to plasma proteins
- ++Rate of hormone Phosphorylation in the circulation

**52. Case: Patient with digeorge syndrome, what is the cause of the crams and grimacing?** hypocalcemia

**53. FIRST thing we see to determine the type of a given thyroid neoplasm:**

capsular and vascular invasion

**54. Most common cause of hypothyroidism:**

Hashimoto thyroiditis

**55. All of the following are leading causes of death in DM patients except:**

polyneuropathy

**56. Case: symmetrical diffuse neck enlargement:**

simple goiter

**57. True:**

left laryngeal branch of vagus nerve ascend at the level of arch of aorta

**58. All of the following are true about thymus except:**

developed from the 4<sup>th</sup> pharyngeal pouch

**59. GH receptor:**

needs dimerization to act effectively

**60. Case: 6 years old boy with signs of puberty and large penis:**

cortical hyperplasia

**61. true about pituitary adenoma:**

Mammotroph adenoma is the most common type of the combined adenoma

**62. Case: less fertility, loss of lateral visual field:**

gonadotrophic cell adenoma

**63. Does not act by cAMP:**

TRH

**64. ACTH:**

peptide hormone

**65. insulin does not:**

increase ketosis

**66. Glucocorticoids treat all of the following except:**

- asthma allergy
- inflammations
- respiratory distress syndrome
- dermatitis
- ++mycosis

**67. cortisol:**

delayed wound healing

**68. All of the following are true about Anaplastic carcinoma except:**

occur in *younger* aged women

**69. Most common cause of symptomatic hyperglycemia:**

Bone metastasis

**70. ACTH deficiency *greatly* diminish:**

Glucocorticosteroids

**71. Hypothalamus hormones has less effect on:**

Adrenal medulla

**72. All of the following are related to hyperaldosteronism except:**

Renin is responsible of escape phenomena

**73. All of the following are true except:**

Pancrease lies anteriorly to the stomach

**74. Aldosterone synthase (18-hydroxylase) presents in:**

Zona Granulosa

**75. All of the following are true except:**

injection of insulin in the same site will accumulate the fat in that area, and this is known as *lipoatrophy* effect.

**76. All of the following are FALSE except:**

Humilin R is the most effective in treatment of DKA

**77. Chromaffin cells are found in:**

Suprarenal gland

**78. Not a risk factor in DM:**

-Pulmonary TB

++Pancreatic carcinoma

**79. cGMP induces intercellular signal pathway:**

False

**80. All of the following are true about conn disease except:**

60% bilateral hyperplasia

**81. Hormones concentration in the blood:**

Nano or less

Sorry for any mistake

**GOOD LUCK**

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