

# ENDOCRINE

# FINAL-021-PAST-PAPERS



**Eman Amjad** 

## **PHARMACOLOGY**

- 1) Which drug of the following causes b12 deficiency?
  - a. Metformin
  - b. Sulfonylureas
  - c. Epalrestat
- 2) First activation of vitamin D occurs in one of the following:
  - a. Skin
  - **b.** Intestines
  - c. Liver
  - d. Kidney
- 3) Mecasermin drug is:
  - a. Insulin drug
  - b. recombinant human IGF-1
- 4) Beta blocker aren't used in hypertension diabetics patients due to:
  - a. It can mask hypoglycemia effects.
  - b. N
- 5) Which of the following is a peak-less insulin drug?
  - a. Glargine
  - b. Insulin aspart
  - c. Isophane insulin suspension

Answers: A, C, B, A, A

- 6) What is the major Side effects to Insulin therapy:
  - a. Hyperglycemia
  - b. Hypoglycemic
- 7) Choose the Mismatch:
  - a. Stigaliptin ... GLP-1 synthetic analog
  - b. Epalrestat...Aldose reductase inhibitors
  - c. Linagliptin ... selective DPP-4 inhibitors.
- 8) Cinacalcet Is calcimimetic
- 9) Sulfonylureas mechanism:
  - a. High affinity sulfonylurea receptors found on alpha cells linked to ATP-ase sensitive K+ ion channel
  - b. Increase insulin release.
- 10) Which drug isn't effective for hypocalcimeia in pseudohypoparathyroidism case?
  - a. Ca+2 chloride
  - b. Vitamin D
  - c. Ca+2 gluconate
  - d. Teriparatide

Answers: B, A, 9-B, D

- 11) Cortisol is an immunosuppressant for.
  - a. Prostaglandin
  - b. Leukatrienes
  - c. A & B
- 12) Increase cAMP levels in urine indicate:
  - a. Increase PTH activity.
  - b. Decrease PTH activity.
- 13) True about TSH?
  - a. Alpha chain in TSH is different from other glycoproteins.
  - b. TSH contains alpha & beta chain.
- 14) Best treatment for hyperthyroidism is:
  - a. Surgery
  - b. Iodide Radio therapy
- 15) Which of the following glucocorticoids has the best anti-inflammatory effect without affecting the hypothalamic-pituitary-adrenal axis:
  - a.dexamethasone
  - **b.** Cortisol
  - c. None

\* مكرر باست

Answers: C, A, B, B, C

# **BIOCHEMISTRY**

- 1) hydrophilic hormones:
  - a. require transport protein.
  - b. require intracellular receptor.
  - c. short half life
  - d. delayed action
  - e. all of the above
- 2) The most common type of second messengers:
  - a. cAMP
  - b.cGMP
  - c. IP3
  - d. DAG
- 3) The relationship between FSH and testosterone is:
  - a. Antagonism
  - b. Synergism
  - c. Integration
  - d. permissiveness
  - e.b+d
- 4) Calcium can introduce a conformational change through all of the following except:
  - a. binding to protein kinase C
  - b. binding to troponin c
  - c. binding to calmodulin
  - d. binding to ca++/ ATPase pump
  - e. binding to Parvalbumin

Answers: C, A, B, D

- 5) True about steroids rate limiting synthesis step:
  - a. cholesterol is the subtrate
  - b. yields progesterone.
  - c. yield 19 c molecule.
  - d. B+D
- 6) The Enzyme which gives adrenaline from nor-Adrenaline:
  - a. Decarboxylase
  - b. Methyltransferase
- 7) All of the following are wrong about cholera toxin except:
  - a. It activates K+ channels.
  - b. Causes depletion in cAMP.
  - c. It causes unregulated activity of adenylate cyclase.
- 8) All of the following is domain of protein kinase C except:
  - a. DAG binding domain (C1).
  - b. G protein domain
  - c. calcium binding domain
  - d. catalytic domain
  - e. All of above is true.
- 9) Insulin receptor is?
  - a. Monomer
  - b. Tetramer
  - c. Hexamer

Answers: A, B, C, B, B

### **PATHOLOGY**

- 1)One of the following isn't a symptom of cushing syndrome:
  - a. hypertension
  - b. poor wound healing
  - c. osteopetrosis
  - d. Hirsutism
- 2) About Craniopharyngioma tumor, which one is true?
  - a. Rapid progressive
  - b. Slowly growing tumor
  - c. Cause dwarfism in adults
- 3) CTLA4 mutation exist in what type of diabetes?
  - a. Diabetes mellitus 2
  - b. Gestational diabetes
  - c. Type 1 diabetes
- 4) Crooke cells appear in what type of adenomas?
  - a. Prolactinoma
  - b. Somatotroph adenoma
  - c. Corticotrophs adenoma
- 5) Which of the following is wrong about adrenal neoplasm:
  - a. Increase activity of renin
  - b. Can cause Hyperglycemia.
- 6) Which factor is the main one to increase the risk of thrombosis in DM patients?
  - a. AGE
  - b. Protein kinase C

Answers: C, B, C, C, A, B

- 7) Carcinoid syndrome can be treated by:
  - a. Protirelin
  - b. Octreotide
- 8) Zollinger Ellison syndrome can causes increase in:
  - a. Gastrin secretion
  - b.T3/T4 secretions
- 9) All of the following are true about prolactinoma except:
  - a. Amenorrhea
  - b. Galactorrhea
  - c. infertility
  - d. Increase libido.
  - e. All are true.
- 10) Which of the following isn't a thyrotoxicosis disease:
  - a. Multi nodular goiter
  - b. Hashimoto syndrome
  - c. Graves' disease
- 11) Medullary carcinoma:
  - a. p53 is a sign of bad prognosis.

Answers: B, A, D, B, A

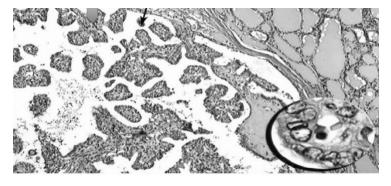
- 12) One of the following statements is wrong:
  - a. Cells with pleomorphic nuclei (atypia) must be taken as a sign of malignancy.
  - b. One gland only is usually affected and the other three are normal or atrophic in parathyroid adenoma.
- 13) True about papillary carcinoma:
  - a. Metastasis to liver is common.
  - b. One metastatic spread to lump nodes doesn't affect its prognosis.
  - c. Deletion of BRAF oncogene

Ans: A, B

- 14) Which of the following true about subacute lymphocytes Thyroiditis Autoimmune: Increase WBCs in serum.
- 15) True about follicular adenoma: Encapsulated

## Lab - pathology

The following histology section shows what type of cancer?



Ans: papillary carcinoma

# **CLINICAL**

- 1) Which type of diabetes can't develop insulin resistance?
  - a. DM 2
  - b.DM1
  - c. Gestational diabetes
  - d. All can develop insulin resistance.

Ans: B

2) Which of the following can't be considered as a threaten factor to develop diabetes?

**Ans:Olive oil** 

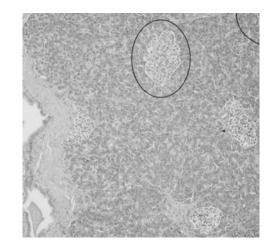
3) A patient has come to your clinic with fasting blood sugar 240, he tests for A1C is 14%, what should you initiate him with?

Ans: lifestyle modification & insulin therapy

# **ANATOMY**

# Lab pic

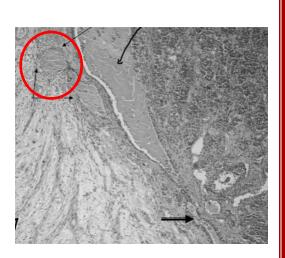
- 1) What is the origin for this tissue?
  - a. Ectoderm
  - b. Endoderm
  - c. third pharyngeal pouch.



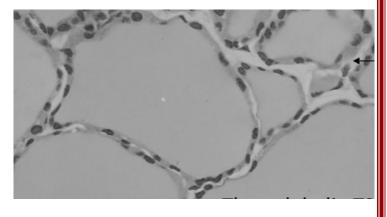
Ans: B

- 2) What is this structure?
  - a. infundibulum
  - b. Colloid cyst
  - c. follicles of thyroid gland





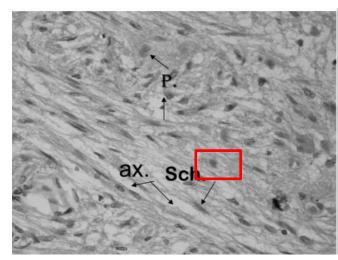
- 3) Which of the following is true for this tissue:
  - a. It has been taken from old patient.
  - b. It has been taken from inactive thyroid gland.
  - c. It has been taken from active thyroid gland.



Ans: B

# 4) What is the following structure?

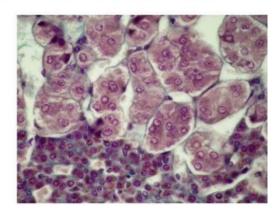
- a. Herring body-pars nervosa
- b. Parafollicular cells
- c. Somatotrophs

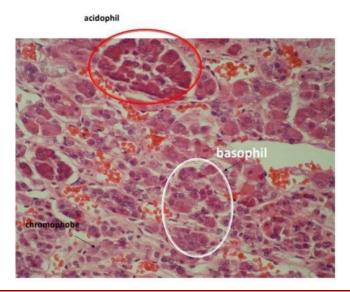


Ans: A

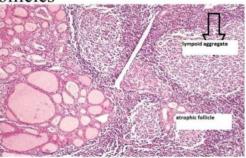
# Lab section, but we don't remember the questions.

#### Chromaffin cells in adrenal medulla

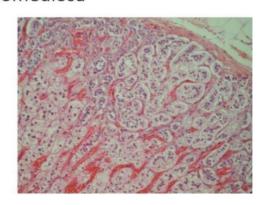


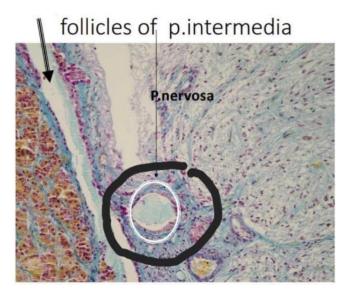


Hashimoto thyroiditis: lymphoid follicles and atrophic follicles



Zona Glomeulosa





# =) Good luck

