

Advanced Histology Exam.

ملاحظة هامة (الأسئلة في صفتين - أنظر بالخلف)

Question No. 1:

Choose the best answer to each statement:

(14 marks)

1. Lymph nodes have many T-lymphocytes present in.....

- a- outer cortex **b- inner** cortex
c- medulla d- all of the above

2. Where is oxytocin secreted from?

- a- Pars intermedia. b- Pars tuberalis.
c- Adenohypophysis. **d- Neurohypophysis**

3. What type of hormone is testosterone?

- a. Protein b. Amino acid chain
c. **Steroid** d. None of the above.

4. Which of the following cells can be classified as an acidophil?

- a. Gonadotropic cells b. Corticotropic cells
c. Thyrotropic cells **d. Mamotropic cells**

5. What is cretinism's disease?

- a- ACTH deficiency b- GH deficiency
c- Cortisol deficiency **d- Thyroid deficiency.**

6. ADH is

- a- protein in nature **b- amino acid**
c- steroids d- carbohydrate

7. Hormone released in response to nerve impulse

- a- epinephrine.** b- norepinephrine.
c- oxytocin d- Melanin

8. Lydig cells secretion is.....

- a- Acidophill.** b- Basophill.
c- Nutrophill. **d- None of the above**

9. What cell type secretes ACTH?

- a. Lactotropic cells c. Somatotropic cells
d. Corticotropic cells e. Gonadotropic cells

10. Ovarian follicles may degenerate at any different stages of development, it then called...

- a. primary follicles b. Secondary follicles
c. mature follicles d. **atretic follicles**

11. Which gland secretes calcitonin?

- a. Pancreas
- b. Thyroid
- c. Pineal gland
- d. Adrenal gland.

12. The chromatin condenses and eccentric nucleus cells in the testes are.....

- a. sertoli cells
- b. spermatogonia
- c. spermatids cells
- d. Lydig cells.

13. When blood calcium levels are low, PTH stimulates _____.

- a. urinary excretion of calcium by the kidneys
- b. a reduction in calcium absorption from the intestines
- c. the activity of osteoblasts
- d. the activity of osteoclasts

14. Which hormone will be able to diffuse through the cell membrane by Pinocytosis?

- a. Thyroid hormone
- b. Steroid hormone
- c. Growth hormone
- d. None of the above

15. The secretion of thyroid hormones is controlled by _____

- a. TSH from the hypothalamus
- b. TSH from the anterior pituitary
- c. thyroxine from the anterior pituitary
- d. thyroglobulin from the thyroid's parafollicular cells

Question No. 2

(5 mark)

Which of the following is false or true?

1. The lateral borders of Lydig cells are joined with each other by tight junctions. **Sertoli cells**

2. Glucose transported through the cell membrane by carrier in unidirectional. **false both directional**

3. Parathyroid hormone regulated the blood Calcium/Phosphate levels. True **(d) PTH & calcitonin**

4. . α cell of pancreas secretes steroids hormone. **Protein glucagon**

5. The secreted T3, T4 and iodotyrosine is cross the cell membrane into the blood.

false T3 only T4

Question No. 3

(5 marks)

Mention the science name of the following:

1. The enzyme that participate on the formation of T3. **protease**
2. A part of the ovary at which Blood vessels and lymphatic enter and leave it. **the hilum**
4. **An** endothelial-lined spaces that extend along the capsule and trabeculae of lymph node. **subcapsular and cortical sinuses, respectively.**
5. Cell type that is involved in the secretion of the thyroglobulin. **Chief cells**

مع أطيب التمنيات بالنجاح الباهر
د/ أمال الدالى