



SOHAG UNIVERSITY
FACULTY OF MEDICINE
HISTOLOGY DEPARTMENT

First year exam for Faculty of Pharmacy students
Time allowed(2 hours)
28-5-2015

Report on Each of the Following: (6 Marks each)

- 1-Classification of leucocytes with reference to the function of each type.
- 2-Enumerate types of bone cells and report on one of them .
- 3-Sarcomere. 4-Fenestrated capillaries.
- 5-Keratinocytes. 6- Spleen parenchyma.
- 7-spermatogenesis. 8-Chromosomal abnormalities.

Draw a Labeled Diagram on the EM Structure of Each of the Following:

- 9- Parietal cell. 10- Pigmented epithelium of the retina.

Choose the Correct Answer: (1 Mark each)

1- The origin of fibroblast cells is:

- a- mesenchymal cells. b- fat cells. c- monocytes.
d- mast cells. e- plasma cells.

2. Free C.T. cells include the following except:

- a- plasma cells. b- mast cells. c- macrophages.
d- mesenchymal cells. e- leucocytes.

3- The cartilage cell which is present inside lacuna is:

- a- osteocyte. b- osteoclast. c- chondroblast.
d- chondrocyte. e- osteoblast.

4- Concerning corpus luteum all the following statements are true except:

- a- endocrine body that secretes progesterone and some estrogen.
b- live for about 9 days in menstrual cycle. c- live for about 9-10 weeks in pregnancy.
d- their granulosa lutein cells are smaller and darker than the theca lutein cells.
e- its cells have the character of steroid secreting cells.

5- Where is thick skin found?

- a. Over the knee b. Sole of the feet
c. Breast d. Lips e. All of the above

6-Which of the following cells are monocyte in origin?

- A. Astrocytes . B. Ependymal cells.
C. Oligodendrocytes. D. Microglia . E. Schwann cells.

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7-What region is made of thick filaments only?

- A. A band . B. I band.
C. Z line . D. H band. E. M line.

8-What is the outermost layer of the GI tract called?

- A. Mucosa . B. Sub mucosa.
C. Muscularis externa . D. muscularosa. E. Adventitia.

9-The mid and deep cortex of the lymph node is mainly populated by:

- A. B cells. B. Tcells.
C.plasma cells. D. macrophage cells. E.-both A&C.

10-Optic nerve fibers are the axons of:

- A. photoreceptors. B. bipolar nerve cells. E.pyramidal cells.
C. ganglion nerve cells. D.shwan cell.

11- Supporting cells of spermatogenic cells are :

- A.Leydig cells . B..Sertoli cells.
C. Spermatids. D.interstitial cells E. spermatogonia

12-The placental barrier include all of the following except:

- A. CT core of the chorionic villi B. endothelium of fetal blood capillaries .
C. basement membrane of fetal blood capillaries. D. trophoblast cells .
E. endothelium of maternal blood vessels.

13 - Glucagon is formed and secreted by

- a- pancreatic acini. b-beta cells of the Islets.
c- liver cells. d- alpha cells of the islet. e- delta cells of the islets.

14-The part of the distal convoluted tubule forming part of the juxta glomerular complex

- a- mesangial cell. b-macula densa.
c-Lacis cells d- Polar cushion cells. e- none of the above.

15 - The Graffian follicle is a :

- a- mature follicle. b- lymphoid follicle.
c- primordial follicle. d- hair follicle. e- growing follicle.

16-Volkmann's canals:

- a-contains no blood vessels. b-are at the center of the osteon
c-communicate with haversian canals. d-are arranged parallel to the bone surface e-both b&c.

17-Intercalated discs are:

- a- found in the compact bone. b- found only in the cardiac muscle.
c-found in smooth muscles.. d- found only in the skeletal muscle. e- both b&c.

18- The principal function of neutrophils :

- a- phagocytosis of bacteria . b- blood clotting.
c- release heparin . d- release histamine. e- immunity.

19- Nissl bodies are found in:

- a-synapses. b-nerve cell body. c-astrocytes.
d-axons. e- Schwan cells.

20-the periarterial lymphatic sheath of the spleen:

- a-are found in the red pulp. b-are found in the white pulp.
c-contain collagen fibers. d- possess sinusoids. e-contains neutrophils.



Report on Each of the Following:

(6 Marks each)

- | | |
|----------------------------|---|
| 1- Cells of pars distalis. | 2-Synapses; types and structure . |
| 3-Endoplasmic reticulum. | 4-Cancellous bone; sites and structure. |
| 5-Cells of immune system. | 6- Lung alveolar cells. |

7-Draw a Labeled Diagram on Each of the Following: (6 Marks each)

- | | |
|--------------------------|--------------------------------|
| a- EM of mast cells. | b- EM of goblet cells. |
| c- EM of parietal cells. | d- Juxta glomerular apparatus. |

8- Complete : (10 Marks, one mark for each point)

- a- Stratified epithelium includes;----- , ----- and -----
-----.
- b- Cartilage cells include ; ----- and -----.
- c- Definition of sarcomere is the -----.
- d- Capillaries include two types; the ----- which is present in-----
----- and the -----which is present in -----.

9-Choose the Correct Answer:

(1 Mark each)

1- The connective tissue fibers include all of the following except:

- | | | |
|-------------------|--------------------|-------------------------|
| a-elastic fibers. | b-white fibers. | |
| c-yellow fibers. | d-collagen fibers. | e-smooth muscle fibers. |

2- Polycythemia means:

- | | |
|---|---|
| a- decrease in number of W.B.Cs. | b- increase in number of R.B.Cs. |
| c- decrease in size of W.B.Cs. | d- decrease in rate of formation of R.B.Cs. |
| e- decrease in the number of platelets. | |

3- Lymph is filtered by:

- a- lymph nodes.
- b- white pulp of the spleen.
- c- red pulp of the spleen.
- d- liver.
- e- Peyer's patches.

4- Hepatocytes contain:

- a- endoplasmic reticulum.
- b- Golgi apparatus.
- c- microbodies.
- d- mitochondria.
- e- all of the above.

5- The power house of the cell is the :

- a- lysosomes.
- b- mitochondria.
- c- endoplasmic reticulum.
- d- Golgi apparatus.
- e- ribosomes.

6- All these structures are present in the epidermis EXCEPT:

- a- melanocytes.
- b- Langerhans cells.
- c- elastic fibers.
- d- keratinocytes.
- e- lymphocytes.

7- The lining epithelium of seminiferous tubules contains:

- a- Leydig cells.
- b- spermatogenic and Sertoli cells.
- c- spermatogenic cells only.
- d- sperms.
- e- all of the above.

8- Testosterone is secreted by:

- a- Sertoli cells.
- b- Leydig cells.
- c- spermatogonia.
- D- spermatid.
- e- zona fasciculata.

9- Concerning primordial follicles all the following statements are correct EXCEPT:

- a- Present in groups.
- b- The type of follicles numerous before birth.
- c- are mature follicles.
- d- The smallest type of follicles present in the ovary.
- e- consists of oocyte enveloped by a single layer of follicular cells.

10- Concerning layers of the cornea One is Wrong:

- a- Surface epithelium is simple columnar.
- b- Bowman's membrane is acellular layer formed of collagen fibers.
- c- Substantia propria form about 90% of the thickness of the cornea.
- d- Substantia propria contains layers of flattened fibroblasts. sandwiched between lamellae of collagen fibers.
- e- Descemet's endothelium, a single layer of endothelial cells.

GOOD LUCK



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HISTOLOGY DEPARTMENT

First year exam for Faculty of Pharmacy students
Time allowed(1.5 hours)
13-6-2015

Report on Each of the Following: (5 Marks each)

- 1- Histological structure of hyaline cartilage.
- 2- leucocytes.
- 3- Nerve cell body.
- 4- blood capillaries .
- 5- clear cells of skin (non keratinocytes).
- 6- Fundic glands epithelial cells.
- 7- Lung alveolar cells.
- 8- Overian follicles .

Draw a Labeled Diagram on the EM Structure of Each of the Following: (5 Marks each)

- 9- Mast cell.
- 10- Hepatocyte

Choose the Correct Answer: (1 Mark each)

- 1- Which is TRUE concerning the renal glomeruli ?
- A. Fenestrated blood capillaries.
 - B. Contineous blood capillaries .
 - C.Lacking diaphragm .
 - D. Secrete renin .

E. both A&C

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FIRST YEAR EXAM FOR FACULTY OF PHARMACY STUDENTS

اسم الطالب:

CHOOSE THE CORRECT ANSWER:

1- which type of epithelium line the urinary bladder?

- a. simple cuboidal .
- b.keratinized stratified squamous
- c. pseudostratified columnar
- d.stratified squamous nonkeratinized
- e.transitional.

2-Pseudo-stratified epithelium is one type of:

- a. simple epithelium .
- b. glandular epithelium .
- c. stratified epithelium .
- d. neuro-epithelium .
- e. germinal epithelium.

3-The term "connective tissue matrix" refers to:

- a. fibroblasts.
- b. white blood cells.
- c. nerves and blood vessels.
- d. extracelllular fibers and ground substance.
- e.macrophages, mast cells, and adipocytes.

4- In ordinary connective tissue, the cells which secrete collagen and elastin are called:

- a. fibroblasts.
- b. chondroblasts.
- c. osteoblasts.
- d. osteoclasts.
- e. osteocytes.

5-Fixed C.T. cells include the following except:

- a- fat cells.
- b- mast cells.
- c- fibroblasts.
- d- mesenchymal cells.
- e- periytes.

6-The cartilage cell which is present inside lacuna is:

- a- osteocyte.
- b- osteoclast.
- c- chondroblast.
- d- chondrocyte.
- e- osteoblast.

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