



Sohag University
Faculty of medicine
Histology Department

DATE: 6-6-2018
Time :2 Hours

الفرقة الثانية
هستولوجيا
دور اول

HISTOLOGY EXAM –SECOND YEAR- JUNE- 2018

Q1. DISCUSS EACH OF THE FOLLOWING:

1. Renal corpuscle (5 marks)
2. Sertoli cell (5 marks)
3. Auditory pathway (5 marks)
4. Neurohypophysis (5marks)

Q2. ILLUSTRATE ONLY WITH A LABELED DIAGRAM THE E.M. STRUCTURE OF: (9 marks, 3 marks each)

1. Hepatocyte
2. Type 2 pneumocyte
3. Intestinal absorptive cell

Q3. IN A TABLE FORM COMPARE BETWEEN THE FOLLOWING:

1. Rods and cons (2 marks)
2. Extra-pulmonary and Intra- pulmonary bronchus (2 marks)
3. Corpus luteum and mature graffian follicle (2 marks)

Q4. ENUMERATE ONLY EACH OF TE FOLOWING:

- 1.The layers of cerebellar cortex. (1.5 marks)
- 2.The cells of the organ of Corti (1.5 marks)
- 3.Cytoplasmic organelles of mucous neck cell of the stomach. (2 marks)

Q5. CHOOSE THE CORRECT ANSWER (20 marks, 1 mark each)

1. Included in the conducting portion of the lung.
 - a. Alveoli
 - b. Alveolar ducts
 - c. Respiratory bronchioles
 - d. Terminal bronchioles.
2. What cell of the following is characterized by presence of intercellular canaliculi?
 - a. Zymogenic
 - b. Parietal cells.
 - c. Mucous neck cells.
 - d. Enteroendocrine cells.
3. Layers of small intestine (One is Wrong):
 - a. Mucosa characterized by the presence of villi and crypts.
 - b. Submucosa containing Peyer's patches in the jejunum,
 - c. Musculosa for peristaltic movement
 - d. Serosa providing a smooth surface
4. In the Skin, keratohyline granules are present in stratum:
 - a. Lucidum.
 - b. Basale.
 - c. Corneum.
 - d. Granulosum.

5. At the bottom of the hair follicles can be found small, cone-shaped elevations called
- a. Melanocytes b. Papillae c. erector pili d. tactile corpuscles
6. The tubular space between 2 hepatocytes is called
- a. The bile canaliculus. b. The blood sinusoids.
c. The central vein. d. The space of Disse.
7. The epithelial lining the ductus epididymis is:
- a. simple squamous epithelium
b. simple columnar epithelium
c. Pseudostratified epithelium with stereocilia
d. Stratified columnar epithelium with brush border
8. Which of the following cells is a component of the olfactory epithelium?
- a. Brush cells. b. Basal cells.
c. Goblet cells. d. Endocrine cells
9. Which of the followings are present in the ovary of a young girl who has not reached puberty?
- a. Primordial follicles b. Mature Graffian follicles.
c. Corpus albicans. d. Secondary follicles.
10. The tectorial membrane is overhanging which of these structures?
- a. Crista ampullaris. b. Organ of Corti.
c. Macula sacculi. d. Macula vestibuli
11. Which of the following cells are responsible for regeneration of glomerular basement membrane in the kidney?
- a. Podocytes. b. Juxtaglomerular cells.
c. Mesangial cells. d. Macula densa.
12. In the glomerular filtration barrier, which of the following is the only continuous layer?
- a. Filtration slits. b. Parietal layer of Bowman's capsule.
c. Glomerular basement membrane. d. Glomerular capillaries.
13. In the retina, which of the following cells are supportive neuroglial cells?
- a. Muller cells. b. Pigment epithelial cells.
c. Ganglion cells. d. Rods and cones
14. What is the lining epithelium of the gall bladder?
- a. Simple squamous epithelium. b. Simple columnar epithelium.
c. Simple columnar partially ciliated epithelium. d. Simple cuboidal epithelium
15. Cells in the anterior pituitary gland appear with acidophilic granules in their cytoplasm?
- a. Corticotrophs. b. Gonadotrophs. c. Somatotrophs. d. Thyrotrophs.
16. What is the lining epithelium of the oviduct?
- a. Simple cubical epithelium.
b. Simple columnar non ciliated epithelium.
c. Simple columnar partially ciliated epithelium.
d. Pseudostratified columnar epithelium



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DATE: 15-8-2018
Time :2 Hours

الفرقة الثالثة
المستوى
دور ثان

HISTOLOGY EXAM –SECOND YEAR- August- 2018

Q1. DISCUSS EACH OF THE FOLLOWING:

1. Proximal convoluted tubules. (5 marks)
2. Spermatogenesis. (5 marks)
3. Auditory nuclei. (5 marks)
4. Pars distalis of pituitary gland. (5marks)

Q2. ILLUSTRATE ONLY WITH A LABELED DIAGRAM THE E.M.STRUCTURE OF: (9 marks, 3 marks each)

1. Organ of Corti.
2. Retinal pigmented epithelium.
3. Parietal cell

Q3. IN A TABLE FORM COMPARE BETWEEN THE FOLLOWING:

1. Type 1 & type 2 pneumocytes. (2 marks)
2. Corpus luteum and atretic follicle. (2 marks)
3. Pancreatic and parotid acini. (2 marks)

Q4. ENUMERATE only each of the following,

1. The layers of cerebral cortex. (3 marks)
2. The neuroepithelial structures. (4 marks)
3. Cells covering the intestinal villus. (3 marks)

Q5. CHOOSE THE CORRECT ANSWER (30 marks, 1.5 mark each)

1- Concerning cells of stratum granulosum all the following statements are true EXCEPT

- a- they are more prominent in thick skin than thin skin
- b- they are present superficial to cells of stratum spinosum
- c- they contain keratohyalin granules which are acidophilic in reaction
- d- they contain lamellar granules.
- e- their nuclei are not prominent.

2- Albism , a failure to perform melanin, can result from an inherited defect in the gene encoding of one of the following enzymes:

- a- prolyl hydroxylase.
- b- papain.
- c- tyrosinase.
- d- lysyl oxidase.
- e- alkaline phosphatase .

3- Glucagon is formed and secreted by:

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

4- The part of the distal convoluted tubule forming part of the juxta glomerular complex is:

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

5-The lining epithelium of seminiferous tubules contains:

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

6-Optic nerve fibers are the axons of:

- a. photoreceptors.
- b. bipolar nerve cells.
- c. ganglion nerve cells.
- d. shwan cell.
- e. pyramidal cells.

7-All of the following cells are present in the fundic glands except:

- a- peptic cells.
- b- oxyntic cells.
- c- goblet cells.
- d- enteroendocrine cells.
- e- stem cells.

8-Erythropoietin factor is secreted from:

- a- endothelium.
- b- liver.
- c- kidney.
- d- bone marrow.
- e- pancreas.

9-What is released from the ovary at ovulation?

- a. secondary oocyte
- b. zona pellucida
- c. first polar body
- d. corona radiata & liquor folliculi
- e. all of the above

10-Which layer consists of only a loose and vascular connective tissue?

- a. Muscularis externa
- b. Sub mucosa
- c. Mucosa
- d. muscularis interna
- e. Serosa

11-The papillae concentrated at the tip and sides of tongue.

- a- filiform papillae.
- b- fungiform papillae.
- c- fircumvallate papillae.
- d- foliate papillae.
- e- both b & c.

12-All the following statements concerning striated ducts of salivary glands and their lining epithelium are true EXCEPT:

- a- intra-lobular in position.
- b- the lining cells have basophilic cytoplasm.
- c- the lining cells are ion-transporting cells.
- d- by EM cells of these ducts show basal membrane infoldings containing mitochondria.
- e- the lining cells have acidophilic cytoplasm.

13-Concerning prostate all the following statements are true EXCEPT:

- a- surrounds the urethra at its origin from the bladder.
- b- its secretion is acidic and contains acid phosphatase, amylase, and fibrinolysin.
- c- the C.T- capsule and stroma contain smooth muscles.
- d- in older men prostatic hypertrophy compress the urethra and lead to varying degrees of obstruction to the bladder neck and urinary retention.
- e- none of above.

14-Capillaries in pars distalis of the pituitary gland:

- a- are fenestrated .
- b- form the primary capillary plexus of the hypothalomo - hypophyseal portal circulation .

- c- carry releasing or inhibiting hormones from the thalamus.
- d- continuous capillaries.
- e- all of the above.

15-Centroacinosse cells are present in:

- a- In The hepatic portal lobule.
- b- In the serous cells of the parotid gland.
- c- In the pancreas.
- d- Surrounding the mucous acini.
- e- all of the above.

16-The dense fibrous connective tissue layer of skin is

- a-epidermis.
- b-reticular dermis.
- c-hypodermis.
- d- dermal papillae.
- e- epidermal ridges.

17-Which region of the digestive tube would have the highest accumulation of lymphatic nodules?

- a-appendix.
- b-stomach.
- c- duodenum.
- d-jejunum.
- e-stomach fundus.

18-The "prickles" which characterize keratinocytes (or "prickle cells") represent the location of:

- a- ribosomes.
- b- mitochondria.
- c-keratohyalin granules.
- d-lipofucin.
- e-desmosomes.

19-Sertoli cells DO NOT have:

- a- straight clear lateral cell boundary.
- b- large, pale, indented, elongated basal nucleus.
- c- microtubules and microfilaments which form the cytoskeleton.
- d- SER.
- e- prominent Golgi and many mitochondria.

20-Which region of the following would have the highest accumulation of mucous glands?

- a- parotid.
- b-stomach.
- c- duodenum.
- d-pharynx.
- e-. pancreas.

Good luck