

# UGS-Histology

## Archive

### Lecture 1

#### The Urinary System



1) Choose the CORRECT match from the followings?

- a. Macula densa ///// columnar cells lacking basement membrane found in wall of proximal convoluted tubules.
- b. Mesangial cells ///// line parietal layer of Bowman's capsule.
- c. Juxtaglomerular cells ///// modified smooth muscles in the wall of afferent arteriole.
- d. Podocytes ///// separate from the basement membrane by capsular space.
- e. Intercalated cells ///// cuboidal cells line the wall of the distal convoluted tubules.

Answer: c

2) All of the following is true about the glomerular capillaries, EXCEPT?

- a. Low pressure capillary bed.
- b. Drain into efferent arteriole.
- c. Highly permeable with wide fenestrae.
- d. Provide wide surface area for filtration.
- e. Engulfed with Bowman's capsule.

Answer: a

3) Choose the INCORRECT statement from the followings?

- a. The juxta-medullary nephrons have long loop of Henle
- b. Lacis cells are key component in the blood renal barrier
- c. The afferent arterioles have larger diameter and thicker media.
- d. The glomerular capillaries lined with fenestrated endothelium.
- e. The distal convoluted tubules lining epithelium has no brush border.

Answer: b

- 4) Which one of the following statements is CORRECT?
- a. Podocytes line the visceral layer of Bowman's capsule and their cell body is separated from basement membrane by capsular space.
  - b. Distal convoluted tubules are lined by high cuboidal cells with apical brush border.
  - c. Juxtaglomerular cells are modified smooth muscle cells present in media of afferent arteriole.
  - d. Lacis cells are rich in renin granules.
  - e. The muscularis of the lower third of ureter is formed of two layers inner circular and outer longitudinal layers of smooth muscle.

Answer: c

- 5) Which of these is incorrect?

Podocytes secrete EPO

- 6) False match :

- a. podocyte // visceral layer of Bowman's // secondary pedicles encircle slits.
- b. DCT / 8-5 cuboidal layers // has no brush border.
- c. lacis cells // blood barrier.

Answer: c

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### Lecture 2

#### Male Genital System

1-which of these is incorrect  
capacitation in seminiferous tubule

- 2-what is the appropriate function of zonula ocludense in sertoli cell
- A.supporting
  - B.proect spermatozoa from autoimmune attack
  - C.Nourishment to sperm
  - D.Special environment for development

Answer:b

- 3-True about spermatozoa:
- A.head of spermatozoa contains hydrolytic enzymes that facilitate penetration of oocyte

- 4-false about cells of lydig ?
- A present in seminephrous tubules

- 5-Choose the INCORRECT match among the followings?
- a.Sertoli cells/////secrete testicular fluid
  - b.Spermatids/////undergo second meiotic division
  - c.Epididymis/////storage and maturation of sperms
  - d.Leydig cells/////secrete testosterone
  - e.COWper's glands/////mucus secreting glands

ans:b

- 6-Spermatogenesis begins in the
- a.Uterine horn.
  - b.Rete testes.
  - c.Seminiferous tubules.
  - d.Seminal vesicles.
  - e.Prostate

ans:c

7-Which of the followings does not characterize the acrosomal phase in Spermiogenesis?

- a.Nuclear elongation and condensation
- b.Formation of the flagellum
- c.Mitochondria are arranged to form the middle piece
- d.Formation and packing of the hydrolytic enzymes in the acrosomal vesicle
- e.The acrosome spreads over the anterior 1/2 of the nucleus

ans:d

8-Choose the CORRECT match?

- a.Seminal vesicle/////lined with stratified columnar epithelium
- b.Transitional prostatic acini/////I site of prostatic cancer
- c.Stereocilia/////principle cells in epididymis
- d.Secondary spermatocytes/////undergo metamorphosis
- e.Capacitation/////secretion of acrosomal enzymes

ans:c

9-Which one of the following is the CORRECT statement?

- a.Secondary spermatocyte contains diploid number of chromosomes
- b.The mitochondrial sheath is present in the neck of the spermatozoa
- c.Motile cilia are seen in the epididymis lining
- d>Spermatids are found in the adluminal compartment of the seminiferous tubules
- e.Main(peripheral)prostatic acini are the site of benign prostatic hyperplasia

ans:d

10- Which part of male reproductive system secretes most of seminal fluid?

- A-Prostate
- B-Penis
- C-Seminal vesicle
- D-Epididymis
- E-Paradidymis

ans:c

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Lecture 3+4

Female genital system



### Lecture 3 :

1) Which one is the CORRECT match?

- a. Ovarian cortical stroma/////source of theca folliculi cells
- b. Granulosa lutein cells/////secrete placental hormones
- c. Oviduct epithelium /////simple columnar mucus secreting
- d. Endocervix/////non-keratinized stratified squamous epithelium
- e. Antrum ////primary ovarian follicles

ans:a

2) Which of the followings statements regarding the female reproduction is CORRECT?

- a. The maternal part of the placenta is called decidua capsularis
- b. The mucosa of the vagina contains mucous secreting glands
- c. The spiral arteries supply the basal layer of the endometrium
- d. The first meiotic division is completed just before ovulation
- e. Primordial follicles contain primary oocytes with haploid number of chromosomes

ans:d

3) Ovulation is associated with sudden rise in?

- a. prolactin
- b. estrogen
- c. LH
- d. Oxytocin
- e. Growth hormone

ans:c

5) Which one of the following is the FALSE statement?

- a. The antrum starts to be seen in the secondary follicle
- b. The second meiotic division is completed before ovulation
- c. Theca interna is responsible for secretion of estrogen hormone
- d. The fallopian tube ampulla is the site of fertilization
- e. The endometrium is lined by simple columnar partially ciliated epithelium

ans:b



### Lecture 4:

4)Concerning the vagina,which statement is CORRECT?

- a.Is lined by stratified columnar epithelium
- b.Has a lamina propria and adventitia rich in elastic fibers
- c.Its musculosa is formed of three layers
- d.Has a lumen with an alkaline pH
- e.Its lining epithelium secretes mucus

ans:b

