# Clime

Histology 25

done by:layan almuhaisen



### Digestive System (Histology)

- 1. Which of the following correctly matches the structure with its secretory content?
- A. Chief cells Hydrochloric acid
- B. Parietal cells Pepsinogen
- C. Paneth cells Lysozyme
- D. Goblet cells Digestive enzymes

Answer: C

- 2. What histological feature is unique to the duodenum among small intestina sections?
- A Dever's natches
- B. Long villi
- C. Brunner's glands
- D. Absence of goblet cells

Answer: C

- 3. The striated ducts found in salivary glands are lined by:
- A. Simple cuboidal epithelium
- B. Stratified squamous epithelium
- C. Simple columnar ion-transporting cells
- D. Pseudostratified columnar enithelium

Answer C

- 4. The presence of taenia coli is a distinguishing feature of the
- A Duodenum
- B Annendix
- C Colon
- D Pectum

Answer: C

- 5. Which part of the alimentary canal has both smooth and striated muscles in it musculosa?
- A. Upper esophagus
- B. Middle esophagus
- D Stomach
- Answer: B



6. If a section of the intestine shows broad leaf-like villi and an absence of both

A Duodenum

C. Ileum

D Annendix

Answer: B

7. Which of the following would best help distinguish a serous acinus from a mucous tubule in histological slides?

A Size of lumon

B Presence of myoenithelial cells

C. Acidophilic cytoplasm

D. Reticular network presence

Answer: C

8. Which gland has no striated ducts, helping differentiate it from the parotid gland?

A. Submandibular

A. Subiriariarbaic

C. Pancreas

D. Parotid

Answer: C

9. The gall bladder is histologically unique because it:

A. Has muscularis mucosa

B. Cantains mablet sells

C. Has no glands in mucosa

D. Contains Brunner's glands

Answer: C

10. Which cell type regulates intestinal secretion via hormonal signaling?

B. Enterbendocrine cei

- ...

D. Absorpt

11. The absence of taenia coli and the presence of abundant lymphoid follicles mos

likely indicate the

A. Colon

B. Duodenum

C. Appendi

D. Harrison

American C

12. What structure, although rich in digestive enzymes, does not contain striated

A I

B Darotid gland

C. Panc

D. Submandibular gland

Answer:

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3. A cross-section of GIT shows simple colun illi. This is characteristic of:



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### Special Sense Organs

- 1. Which of the following correctly pairs the receptor type with its primary function?
- A. Kullilli Corpuscie Taste detecti
- B. Merkel cells Mechanoreception
- C. Meissner corpuscle Color vision
- D. Rods Sound percept
- Correct Answer: B
- 2. A patient has difficulty distinguishing colors but has no issue with night vision What is the likely deficiency?
- A. Rod dysfunction
- P. Roa dysianiction
- C. Cochlear damage
- D. Merkel cell damage
- Correct Answer B
- 3. What is the correct sequence of the three layers of the eyeball from outermost to innermost?
- A. Retina → Sclera → Choroid
- B. Choroid → Retina → Sclera
- C. Sclera + Choroid + Retina
- D. Retina → Choroid → Sclera
- Correct Answer: C
- 4. Which of the following structures contains neuroepithelium responsible for hearing?
- A. Vestibular apparatus
- B Moisspor corpuscio
- C Organ of Corti
- D. Doort being along
- C------
- 5. A child complains of imbalance (problem in the postural equilibrium) and vertige Which part of the ear is most likely affected?
- A. Cochlea
- B. External ear
- C. Vestibular apparatu
- D. Eustachian tube
- 6 Which sensory recentor type is NOT encapsulated?
- A. Meissner corpuscle
- B. Free nerve endings
- C. Ruffini corpuscie
- D. Krause end bulb
- Correct Answer: B



- 7. Which pigment is responsible for night vision?
- A. Melanin
- C Dhadansin
- · · ·
- Correct Answer: C

8. Which encapsulated cell type would most likely be stimulated by gently brushing

- A Ruffini corpuscle
- P. Markal calls
- C Maisspar corpuscia
- D. Cone cells

Correct Answer C

- 9. Which structure in the eye is directly responsible for detecting the direction and intensity of light, thereby contributing to image formation?
- A. Choroid
- B. Rod and cone cells
- C Ciliany body
- D Sclera
- Correct Apswer P

10. If the rods in the retina were destroyed, which of the following abilities would be

- A Dooding fine priv
- A. Reading fine print
- B. Recognizing colors
- D. Hearing faint sounds
- D. Hearing faint sounds





# Clime

Histology 27

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Urinary system (Histology)

1. Which structural feature most contributes to the granular appearance of the renal

cortex under the micr

- A. LOOP OF FICTIO
- B. Collecting ducts
- C. Renal corpuscies and convoluted tubules
- D. Medullary pyramids

Answer: C

- 2. What is the correct flow of urine from the nephron to the ureter?
- A Bowman's capsule + DCT + PCT + Loop of Henle + Collecting duct
- B. Renal corpuscle  $\rightarrow$  PCT  $\rightarrow$  Loop of Henle  $\rightarrow$  DCT  $\rightarrow$  Collecting tubules  $\rightarrow$  Minor calyx  $\rightarrow$
- Major calyx → Renal pelvis → Ureter
- C. Glomerulus → Loop of Henle → PCT → DCT → Minor calyx
- D. PCT + Bowman's capsule + Loop of Henle + CD + Bladder

Answer: E

3. Which part of the nephron is composed of cells specialized in reabsorption and

nas a brush border?

- A. Distal convoluted tubule
- B. Bowman's capsule
- C. Proximal convoluted tubule
- D. Loop of Henle (thin segment)

Angwor, C

4. Podocytes in the visceral layer of Bowman's capsule are specialized for what

function?

- A. Ion exchange
- B Phagocytosis
- C. Ultrafiltration via foot processes
- D. Active secretio

5. Which of the following correctly pairs the nephron segment with its epithelial

A. Thick ascending limb - simple squamous epithelius

- B. Collecting tubule stratified squamous epithelium
- C. PCT acidophilic cuboidal cells with brush borde
- υ. υς ι μ



6. Which of the following histological features best distinguishes the DCT from the

- A Brush border in DCT
- B. Narrower lumen in DCT
- C. Less acidophilic cytoplasm and apical nuclei in DCT
- D. More cells per cross-section in DCT

Anguage

7. Which part of the urinary system contains three layers of interlacing smooth

muscle'

A. Urete

- B. Collecting duct
- C. Loop of Henle
- D. Urinary bladder

Answer: D

- 8. Why are glomerular capillaries uniquely suited for filtration?
- A They are continuous and rest on a thick basement membrane
- B. They are fenestrated and rest on a thick basement membrane
- C. They have valves to control flow
- D. They contain tight junctions

Answer B

- 9. Which statement is true regarding the ureter's musculosa'
- A It has a uniform layer of skeletal muscle
- B It has an inner circular and outer longitudinal layer only

Answer: D

10. A student finds a renal structure with pale cells, wide lumen, and simple cuboida to columnar epithelium. What is the most likely identity?

- A DCT
- B DCT
- C. Loop of Henle
- D. Collecting tubule

Answer: D

