

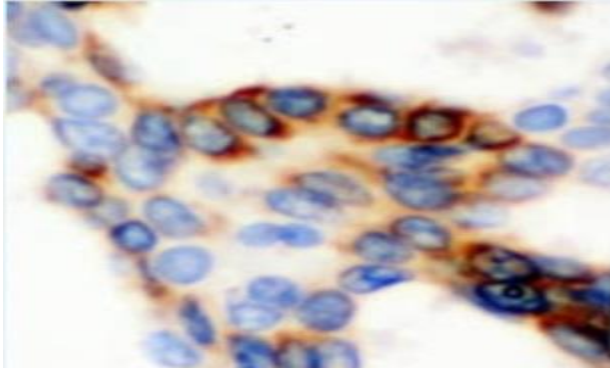
HISTOLOGY PAST PAPER (MED 020)

DONE BY :

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1) what is the staining method that is used in this image :



- A) Hematoxylin stain only
- B) Immunofluorescence staining
- C) PAS stain
- D) H&E stain
- E) Immunohistochemistry and Hematoxylin stains

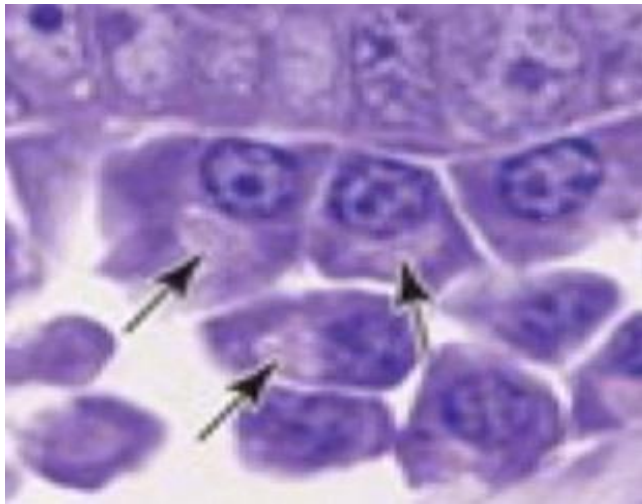
2) Dense regular connective tissue is seen in :

- A) The dermis
- B) Capsule of the kidney
- C) Cruciate ligament of the knee
- D) Perichondrium
- E) None of the above

3) The passage of ions between epithelial cells is facilitated by which type of junctions :

- A) Tight junctions
- B) Desmosomes
- C) Hemidesmosomes
- D) Gap junctions
- E) The statement is incorrect

4) The cells marked with arrows :



- A) Phagocytose bacteria
- B) Release histamin
- C) Are involved in hypersensitivity immune reaction
- D) All of the above
- E) None of the above

5) What is the most commonly used chemical for removing water from biological samples (dehydration) :

- A) Xyline
- B) Paraformaldehyde
- C) Alcohol
- D) We can air-dry samples instead
- E) None of the above

6) Choose the correct statement about reticular fibers :

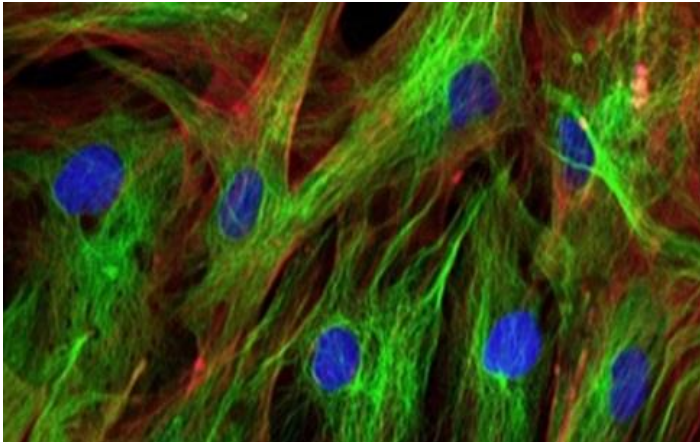
- A) Consist mainly of collagen type II
- B) Is argyrophobic
- C) Form delicate laminae
- D) Present in all lymph nodes
- E) All of the above

7) What is the most suitable microscope(s) to visualize the following: cultured cells, immunohistochemically stained sections, and H&E stained sections, respectively:

- a) Bright-field microscope for all of them.
- B) Bright-field microscope, phase contrast microscope, and bright-field microscope.
- C) Phase-contrast microscope, bright-field microscope, and bright-field microscope.
- D) Bright-field microscope, immunofluorescence microscope, and TEM

E) Phase-contrast microscope, immunofluorescence microscope, and bright-field microscope.

8-Which color indicate the nucleus:



- A) Red.
- B) Black.
- C) Green.
- D) Blue.
- E) The nucleus is not stained.

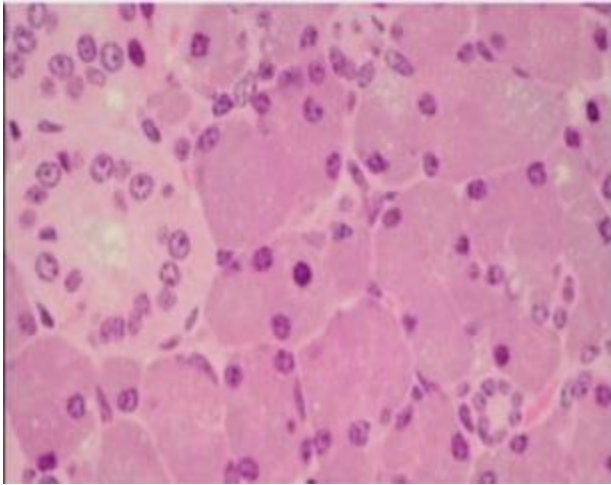
9- Which of the following apical structures is seen in the small intestinal epithelium:

- A) Cilia.
- B) Stereocilia.
- C) Microvilli.

D) Stereovilli.

E) C&D

10- This image was most likely taken from:



A) Simple alveolar gland.

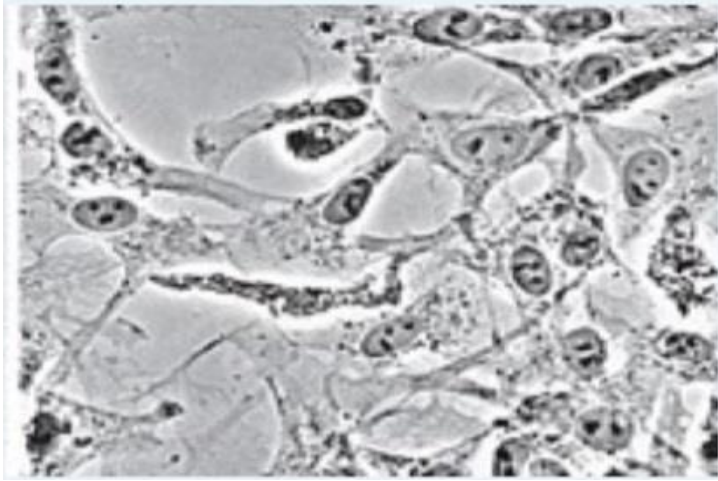
B) Simple tubular gland.

C) Simple tubuloalveolar gland.

D) Compound alveolar gland.

E) None of the above.

11- This image was acquired using which type of microscopes:

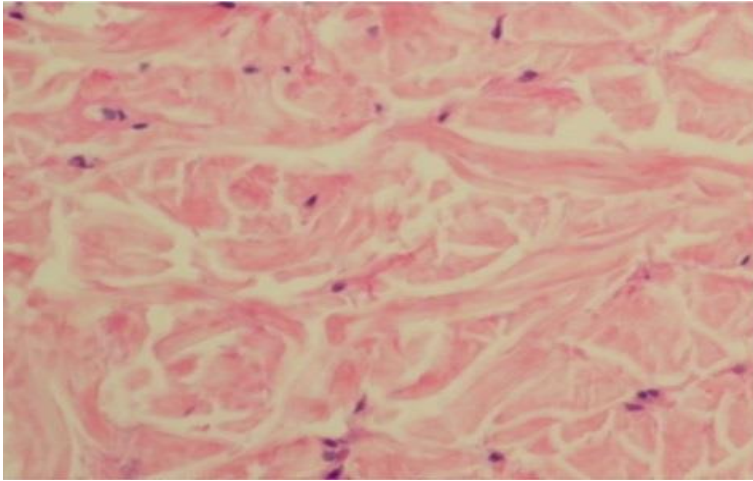


- A) Differential interference contrast microscope.
- B) Phase-contrast microscope.
- C) Bright-field Microscope.
- D) Fluorescence microscope.
- E) TEM.

12- Choose the correct statement about epithelic issues:

- A) All types have the same regeneration capacity.
- B) Capillaries penetrate them sometimes.
- C) Line all external and some internal surfaces of the body.
- D) Most substances that enter or leave an organ must cross an epithelial tissue.
- E) None of the above

13- The most abundant type of fibers in the tissue is/are:



- A) Collagen/fibroblasts.
- B) Reticular/reticular cells.
- C) Elastic/fibroblasts.
- D) A&B.
- E) A&C.

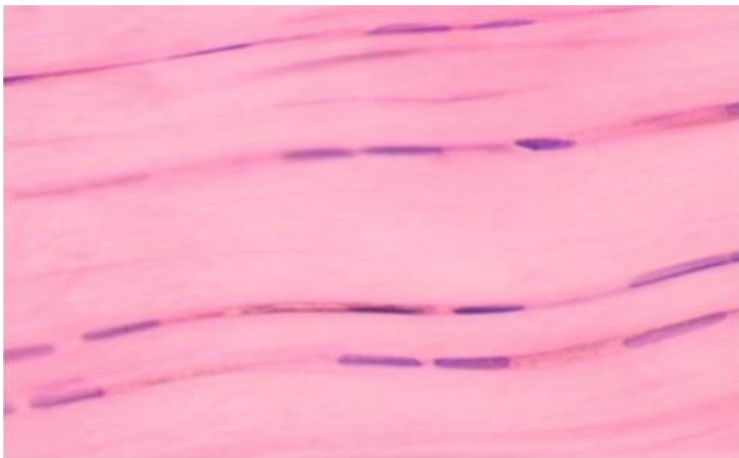
14- Stratified squamous nonkeratinized epithelium lines the following structures, Except:

- A) Oral cavity.
- B) Vagina.
- C) Esophagus.
- D) Pharynx.
- E) Large arteries.

15- Which of the following GAGs is not found in the skin :

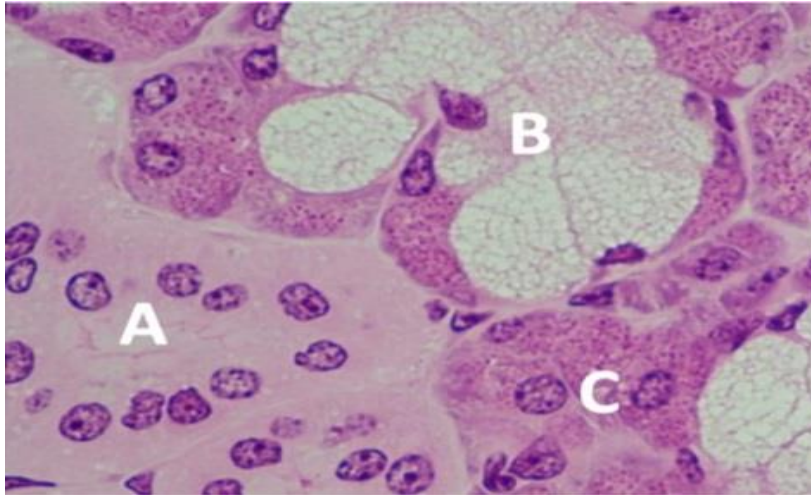
- A) Chondroitin 4- sulfate
- B) Chondroitin 6-sulfate
- C) Chondroitin 8- sulfate
- D) Dermatan sulfate
- E) None of the above

16-The main fiber in this tissue belong to which type:



- A) Lamina-forming.
- B) Network or sheet-forming.
- C) Fibrillar.
- D) Linking.
- E) Anchoring.

17- The cells marked with A, B, and C letter are, respectively:



A) Mucous, and ductal, and myoepithelial

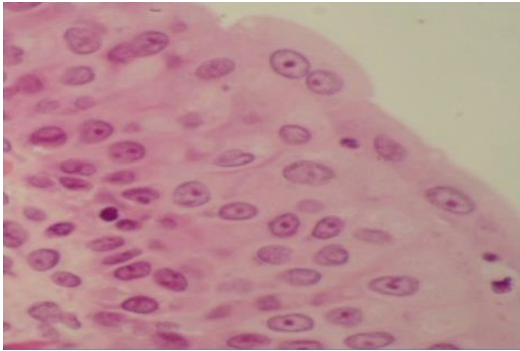
B) Serous, mucous, and myoepithelial.

C) Serous, goblet, and myoepithelial.

D) Ductal, mucous, and serous.

E) Mucous, serous, and ductal.

18- Choose the incorrect statement about this tissue:



- A) It lines the urinary bladder.
- B) It is called urothelium.
- C) The apical layer are called umbrella cells.
- D) Binucleation is seen in this type.
- E) It is a stratified cuboidal.

19- Your colleague is planning to assess th abundance of myoepithelial cells in parotid glands of ats by staining (as precise and easy as possible), what do you ad ise her/him to do:

- A) H&E stain.
- B) TEM.
- C) PAS stain.
- D) Immunohistochemistry or immunofluorescence staining
- E) Any of the above.

20- Which of the following stains can be used to visualize collagen:

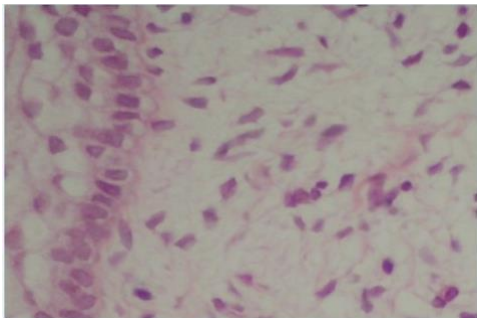
- A) Trichrome stain.

- B) H&E stain.
- C) Picrosirius stain.
- D) Immunofluorescence staining.
- E) All of the above.

21- Which of the following substances is not released by Mast cells:

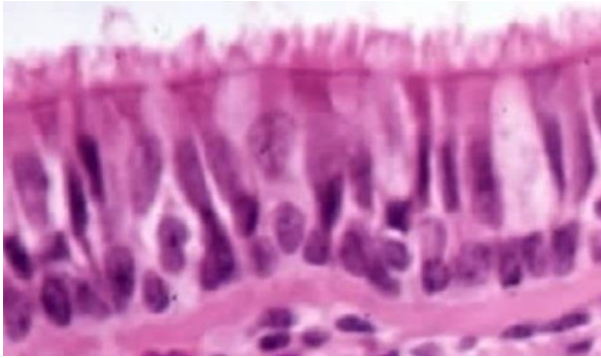
- A) Heparin.
- B) Histamin.
- C) Serine proteases.
- D) Cytokines.
- E) None of the above.

22-The tissue in the this image is:



- A) Wharton's jelly.
- B) Loose connective tissue.
- C) Reticular connective tissue.
- D) Mesenchymal connective tissue.
- E) None of the above.

23- Identify the type of epithelium in this image:

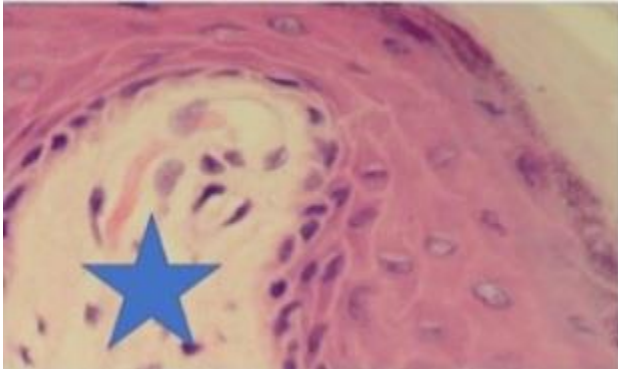


- A) Stratified columnar with goblet cells.
- B) Simple columnar with goblet cells.
- C) Stratified cuboidal with goblet cells.
- D) Ciliated pseudostratified columnar epithelium.
- E) Ciliated pseudostratified columnar epithelium with goblet cells.

24- Regarding Wharton's jelly, choose the correct statement:

- A) Is rich with collagen fibers.
- B) The ground substance is composed c dermatan sulfate mainly.
- C) The cells content is composed of mesenchymal stem cells (mostly) and some fibroblasts.
- D) Is the main component of the fetal umbilical cord.
- E) None of the above.

25- The tissue marked with the star is-----, and stained with-----:



- A) Dense regular connective tissue, Eosin stain.
- B) Dense regular connective tissue, H&E stain.
- C) Loose connective tissue, H&E stain. d. Loose regular connective tissue, H&E stain.
- D) Reticular connective tissue, H&E stain.

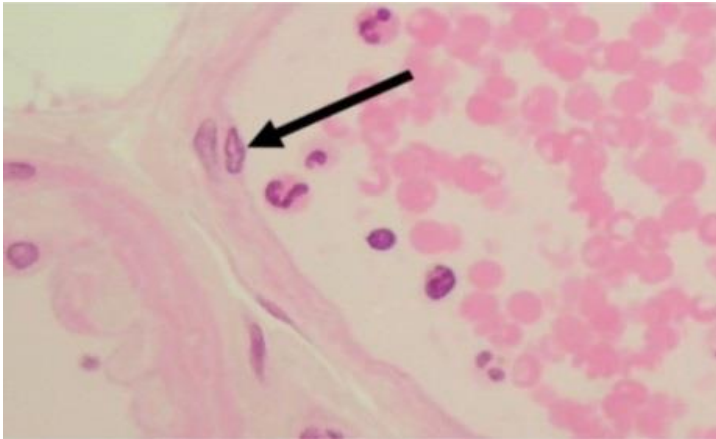
26- A student used the light microscope to acquire images for stained histological section, what is the final magnification of the images if she used the 40X objective lens?

- A) 40
- B) 400
- C) 4000
- D) 1600
- E) 40000

27- Regarding the electron microscope, choose the correct statement:

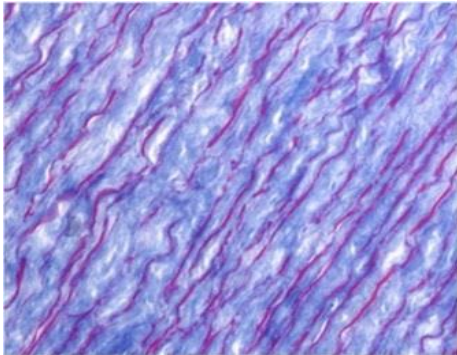
- A) TEM stands for transparent electron microscope.
- B) SEM type yields colored and three-dimensional images.
- C) Specimens are coated with metal atoms for both types
- D) The resolution is 0.003 micrometer in TEM.
- E) All are correct.

28- The black arrow points to:



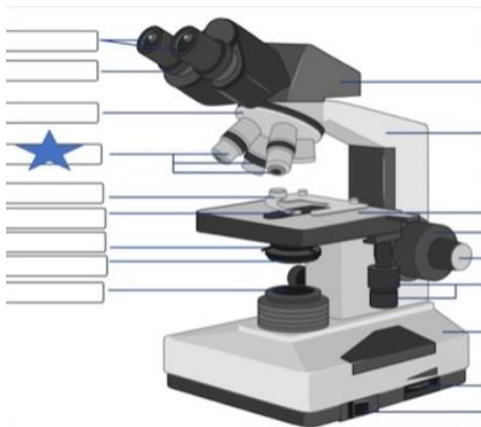
- A) Nucleus of an endothelial cell.
- B) Nucleus of a mesothelial cell.
- C) Nucleus of a fibroblast.
- D) Nucleus of a fibroblas.
- E) Nucleus of a fibrocyte.

29- Regarding the pink structure in this image, choose the correct statement of :



- A) Can also be stained with silver.
- B) Is present in the aorta.
- C) It usually forms bundles.
- D) Synthesized by fibroblasts.
- E) B&D

30- The structure marked with the blue star is/are:



- A) Ocular lenses.
- B) Condensers
- C) Objective lenses.

D) Illuminators.

E) None of the above.

ANSWERS

1	2	3	4	5	6	7	8	9	10
E	C	D	E	C	C	C	D	C	D
11	12	13	14	15	16	17	18	19	20
B	E	A	E	C	C	D	E	D	E
21	22	23	24	25	26	27	28	29	30
E	D	E	D	C	B	D	A	E	C

