

## Midterm Histology exam of 2015

- 1. Which of the following is not a FIXED CELL?
  - a. Mast Cell
  - b. Plasma Cell
  - c. Fibroblasts
- 2. Which of the following connects the cytoskeleton to the ECM?
  - a. Desmosomes
  - b. IM filaments
  - c. Actin Filaments
  - d. Integrins
- 3. Which of the following is true about CT?
  - a. It is composed of MORE ECM than CELLS
- 4. Which of the following is false regarding GAG's?
  - a. Negatively charged
  - b. Hyaluronic acid forms the backbone of sulfated GAG's
  - c. Hyaluronic acid forms proteoglycans
  - d. Sulfated GAG's form proteoglycans

	c.	Acidophilic cytoplasm	
7.	What is	s the electron dense layer seen in a section of a cell membrane?	
	<mark>a.</mark>	Phospholipid-protein complex	
	b.	Glycolipids	
	c.	Sialic acid	
8.	How ca	in the shape of a tissue be determined?	
	a.	By the shape of the nucleus	
9.	Which	of the following can be seen under a LM (H&E)?	
	a.	Tight junctions	
	b.	SER	
	c.	Ribosomes	
10.	Why do	pes the nucleus stain blue?	
	a.	Hematoxylin stains nucleic acids blue	
11. Sebaceous glands can be classified as?			
	a.	Simple branched tubular	
	b.	Simple alveolar	
	<mark>C.</mark>	Simple branched alveolar	
12. Which of the following is false about microscopes?			
	<mark>a.</mark>	TEM scans the surfaces	

5. Which of the following is a wrong description of a MAST cell?

6. Which of the following is false about Plasma Cells under a LM?

a. Profuse RER

b. Negative Golgi image

a. They are part of the Mononuclear phagocyte system

b. Appears lighter than serous secreting cells un	der the microscope		
c. Can form demilunes			
14. Which of the following is mismatched?			
a. Lungs and transitional epithelium			
b. Skin and keratinized stratified squamous			
15. Which of the following counts for the ability to see the	e cells under a microscope?		
a. Staining			
b. Slicing			
c. Waxing			
16. Which of the following is true of Macrophages?			
a. They are first called monocytes			
b. They are characterized by metachromasia			
17. Which of the following is true of CT and Epithelial tiss	ues?		
a. CT can only be derived from one layer			
b. Epithelial tissue can be derived from all 3 laye	rs		
c. A+B			
18. Which of the following resembles the structure of bas	al bodies?		
a. Axoneme			
b. Centrioles			
c. Actin filaments			
d. Flagella			

b. Live specimen can be seen using the phase-contrasting microscope

13. Which of the following is the least descriptive of a Mucous secreting cell?

a. Flattened nucleus

- 19. What is the function of tight junctions?
  - a. Maintain the structure of the tissue by not allowing anything to diffuse between cells
- 20. What is true of Gap Junctions?
  - a. They are made of desmosomes
  - b. They allow passage of small molecules between cells
- 21. What is the difference between Desmosomes and Hemidesmosomes?
  - a. Desmosomes attach two neighboring cells together while hemidesmosomes attach the cell to the basal membrane

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