

3. A 12 years old boy who was admitted to the ER due to right shoulder pain and a high degree fever. Upon examination, he was found to have an inflamed wound with purulent exudate. Lymphocytes can travel by diapedesis..

1. Post capillary venules
2. Proximal lymphatic nodules
3. Lymphatic capillaries

Answer: POST CAPILLARY VENULES

Foam cells are
. Select one:

- a. Modified smooth muscles in tunica media of arterioles
 - b. Endothelial cells damaged by atherosclerotic lesions
 - c. Fibroblasts in tunica adventitia of arteries to prevent over distention
 - d. Macrophages ingesting lipids in the sub-endothelium of arteries
 - e. Mesothelial cells lining of the blood sinusoids
- d
-

Glomus cells are sensitive to CO₂ & O₂

Where is the site of transverse tubules

- A) A-I junction
- B)Z band
- C) A-H
- D) any site

Answer:a

which of the following are targeted cells to the cd8+ cells:

Answer: all nucleated cells

MHCII molecule are adhered by

Answer: CD4 cells

Where is the lymphoid tissue located in the gastrointestinal tract?

A) Mucosa

B Submucosa

Answer: mucosa

Type of secretion of lacrimal gland:

Watery

: The positive selection occurs at .2

A. Cortex

B. Paracortex

C. Medulla

Answer: A

On of the following assists in B - lymphocytes development and .3
: differentiation

Antigen/// T - helper cells الجواب

: The type of epithelium in the endothelium is .4

simple squamous epithelium الجواب

:The type of epithelium in the esophagus is .5

non - keratinized stratified epithelium الجواب

: The protein that isn't found in smooth muscle thin actin filament .6

A. Tropomyosin

B. Troponin

C. Titian

D. Nuelin

الجواب B

Support thick myofilaments and connect them to z disc?

A titin

B myomesin

C actinin

D m line

Ans a

?In skeletal and cardiac muscle all true except?

A both involuntary

B both have mitochondria

C both cytoplasm acidophilic

D both have endomysium

Answer: a

?All true except in purkinje fiber

A larger in diameter than ordinary cardiac muscle

B in skeletal and cardiac

C pale staining fiber

Answer: B

The correct one regarding Interstitial fluid

A) contain lysosomes

B)found in the nucleus

C)found in the cytoplasm

D) is extracellular matrix

Answer: d

Receptor mediated endocytosis is:

A) highly selective of active process

B) highly selective of passive process

C) non-specific of active process

D) non specific of passive process

Ans: A

The cell membrane appears at high magnification of EM:

1)two electron dense line sperated by lucent zone

2)two electron lucent line separated by electron dense zone

3) two electron lucent line seperated by dense line

Ans: a

Golgi apparatus appears when stained as:

Clear Unstained area

Where the prebone is found?

Surface layer of the bone

Periosteum

Endosteum

Spaces of bone marrow

Center of the bone

Ans: a

Which of the following secretes histamines enzyme?

Basophile

Eosinophils

Nutrophile

ANS: B

The apical surface of the epididymis contains?

Cilia

Steriocilia

ANS: B

Endocrine gland contains acidophilic cytoplasm rich in what?
steroid synthesizing hormone

Which of the following is wrong about fibrogenous cartilage

A- it is found in intervertebral disc

B- rich in collagen type 1 so it gives basophilic cytoplasm

C- the chondrocyte in lacuna is arranged in row

الجواب b

Which of the following cells have the longest period?

Macrophage

Basophils

Eosinophil

Adipocyte

Mast cell

adipocyte الجواب

Which of the following is correct regarding to superficial layer of transitional cell

A-it has intercellular mucous so cell can glide

B- it has upper concave and lower convex

C-it has cuticular on its border

D- it is pear shaped

Why we use Indian ink in macrophage

A- it's basic cytoplasm

B-rich in RER

C- phagocytotic activity

الجواب c

Open canalicular system situated in thrombocyte in?

A-glycogen granules

B-Hyalomere

C- granulomere

D-micro tubules

E-microfilament

الجواب B

Which of the following has the least percentage in blood circulating

A-basophils

B- neutrophil

C- eosinophil

D-lymphocyte

الجواب basophil

اللي هو a

How fluids circulate in the cancellous bone?

A-volkman canal

B-Haversian canal

C-canalicle

الجواب c

How many osteocytes can we watch in lacuna?

A-1

B-2

C-8

D-4

E- all of the following

الجواب A

What is the compartment we can demonstrate in thick site of white fat cell

A-flattened nucleus -SER- Golgi

B-flattened nucleus-RER-Golgi
C-flattened nucleus-RER-micro filament
D-rounded nucleus-microfilament- mitochondria
E-rounded nuclei ...
الجواب C

What is the first change happen when the the distal part of axon is injured?
A-complete distraction of axon
B-the nucleus become eccentric in soma
C-distraction of proximal axon
Dchromatolysis
الجواب A

Which of the following cause basophil base of the protein synthesizing cells
RER and ribosome
Ribosome and mitochondria
Ans: a

collagen has stratification Why?
ANS: the gap of the end of the end of the subunits

the leukocytes send extensions
through the openings between the
endothelial cells, migrate out of the
venules into the surrounding tissue
What the name of this process?
A-Diapedesis
B-Chemotaxis
Ans: a

Regeneration of nerve fiber happen in specific order what is that?
axon growth- re innervation- schwann cell activation- Wallerian degeneration
re innervation- axon growth- Wallerian degeneration- schwann cell activation
Wallerian degeneration- schwann cell activation- axon growth-re innervation
Ans: C

An epiphyseal growth plate shows distinct regions of cellular activity and is
often
discussed in terms of five zone
Mention them in order?

The resting zone- The proliferative zone-the hypertrophic cartilage-the
calcified cartilage zone- the ossification zone

The proliferative zone- The resting zone-the hypertrophic cartilage-the calcified cartilage zone- the ossification zone

Ans: a