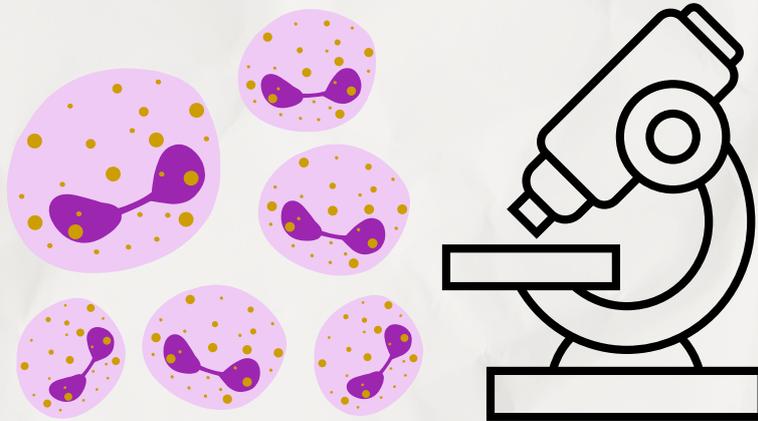


# HISTOLOGY

## MID EXAM



Done by:layan almuhaisen

:Q:The cell which save the information for bone

- A.osteoclast
- B.osteoblast
- C. Osteogenesis
- D. Osteocytes

Ans...D

Q: The process of using formalin 10% at paraffin method

- A. Fixation
- B. Dehydration
- C. Clearing
- D. Obtaining

Ans...A

Q: white fat is stained

- A. SudanIII
- B. Ven Gideon
- C Silverstein
- D. Giemsa stain

Ans..A

Q:the receptor for neuropithelium

- A. Hair cell
- B. Suporrrting cell
- C. Basal cell

Ans...A

Q: one of the following has one duct and branched secretory units:

- A. Compound glands
- B.simple branch gland
- C.Tubulaolveolar
- D.Holocring glands

Ans...B

Q. One of the following migrates to tissue

- A. WBC's
- B. RBC's
- C. Platelets

Ans. a

:Q: The characteristic for undifferentiated mesenchymal cell

- A. the nucleus is dark
- B. its shape is non-branched
- C. it has fine chromatin
- D. doesn't have free ribosomes

Ans. C

Q: the cell which secretes histamine

- A. Mast cell
- B. Neutrophil
- C. Eosinophil

Ans. A

Q: the structure which penetrates the bone matrix binding the periosteum to bone

- A. Osteoblast
- B. Sharpey's fibers
- C. Haversian system
- D. Volkmann's canals

Ans. b

Q. The zone in the epiphyseal which remains cartilage

- A. Resting zone
- B. Proliferative zone
- C. Ossification zone
- D. Calcification zone

Ans.. A

Q. The flat bone consists of

- A. compact bone
- B. Spongy bone
- C. compact bone and spongy bones

Ans. C

Q:the connective tissue which surrounding the whole muscle

- A. Perimysium
- B.endomysium
- C. Epimysium

Ans. C

Q: the sacroplasmic reticulum is consent of

- A.terminal cisterna between two T-tubule
- B. One dark A separating two halves of I band
- C.one light I separating two halves of A band

Ans..A

Q/The Zones in the epiphyseal growth plate:

A/Resting → proliferative → hypertrophic → calcification → ossification

Q/The right sentence about A. Dome shaped

- B. Two or three layers
- C.simple epithelial cells
- D.have goblet cells

empty urinary bladder:

Answer A

Q/The right sentence about trachea:

- A. Has microvilli
- B. Is stratified squamous keratinized epithelium
- C. Is psuedostratified columnar epithelium with goblet cells
- D. Is psuedostratified columnar epithelium without goblet cells

Answer C

Q/Serous Cells has:

A/Apical acidophilic and basal basophilia

Q/Why is the difference between epithelial cells and CT:

- A. CT cells are more
- B. CT cells are closely aggregated
- C. Epithelial cells are closely aggregated
- D. Epithelial cells are less

Answer C

:Q/What is right about smooth muscles

- A. Don't have actin nor myosin
- B. Striated
- C. Have sarcomeres
- D. Have caveolae instead of T tubules

Answer D

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:Q/The part between the muscle and neuron which has Neurotransmitters

A/Axon terminal

—

:Q/I band consists of

A/Actin ONLY

—

:Q/Muscle triad consists of

A/Two terminal cisternae separated by t-tubule

—

Q/Satellite cells are: stem cell for muscles

\_\_\_\_\_

Collagen type 1 → Resists tension

Macrophages → come from outside CT cells (in bone marrow)

Plasma cell → (-ve Golgi image)

Epimysium → surround the whole muscle

SR → storage of Ca

\_\_\_\_\_

: Q/CT that covers every skeletal muscle-

Endomysium

:Q/Muroid CT is abundant with-

GS with Hyaluronic acid (jelly)

Q/Elastic fiber stains with : Orcein brown-

Q/What kills the parasitic worms in Eosinophil cells: MBP-

:Q/The neuroepithelium in the nose which detect sensation is  
A/The olfactory cells → hair

:Q/All of the following are made up of simple squamous except -

- A. Alveoli in the lungs
- B. Bowman's capsule in the kidney
- C. Thyroid ducts
- D. Mesothelium

Answer C

Q/goblet cells are -

- A. Multicellular
- B. Serous acinus
- C. Unicellular
- D. Mixed gland

Answer C

:Q/what is right about small lymphocytes -

- A. Has lightly stained nucleus
- .B. Consists about 5-10% of circulating RBCs
- .C. Has more basophilic cytoplasm than large lymphocytes
- D. Has scanty rim of cytoplasm

Answer D

:Q/the Nucleus of white adipose tissue has the shape of -

- A. Ring
- B. Cartwheel
- C. Clock face
- D. Central

Answer A

:Q/The right sentence about osteocytes-

- A. Has very dark basophilic cytoplasm
- B. Originate from UMC
- C. Has gap junctions
- D. Are immature cells

Answer C

:Q/The CT fibers which make a framework is

- A. Collagen
- B. Reticular
- C. Elastic
- D. Adipose

Answer B

-Ossification center of a bone originate from → UMC

-Endochondral ossification has primary ossification in the diaphysis and secondary in the **epiphysis**.

Q/The right sentence about Haversian system:

- A. Each canal is lined by endosteum
- B. Volkmann's canal is the name of the central canal
- C. perpendicular to the diaphysis of the bone
- D. each bone has one system

Answer A

-What is the structure which penetrate the bone matrix and prevent the separation of periosteum → Sharpey's fibers

-The importance of formal saline → to harden the tissue and help in section cutting

-The name of the apparatus we use to cut the tissue after paraffin embedding → rotatory microtome

-Enzymes and lipids are preserved by → freezing technique

-Why territorial matrix stained differently → because it has many GAGs

-Total magnification power is calculated → lens power X objective lens

-The cell which maintain the bone matrix → osteocytes

-The primary and secondary ossification centers are separated by → epiphyseal plat