

# histology





### <u>med archive رَوح med archive</u>

1)Collagen type in reticular dermis:	
a) 1	
b)2	
c)3	
d)4	
e)6	
	Answer: A
2)unmeniralized bone matrix is called:	
a)Osteoblast	
b)Osteon	
c)Osteoclast	
d)osteoid	
e)Osteocyte	Answer: D
3)apical modification in absorptive cells a)Microvilli	
b)Cilia	
c)Stereocillia	
d)Basal infolding	
	Answer: A
4)one of the following is correct :	
a)Protoplasmic astrocytes is pleomorphic	
b)Fibrous astrocytes in grey matter	
c)Microglial cells are found in choroid plexus	
	Answer: A

### 5)connective tissue proper:

a)Muscle

b)Ligament

c)Bone

d)Cartilage

e)Blood

# **Answer: B** 6)wrong stain: a)Orcein---->elastic b)Silver---->reticular c)Blood---->leishman d)Fat---->geimsa **Answer: D** 7)cartilage contain thick collagen bundles: a)Hyaline b)Fibro c)Elastic d)All of the above e)Non of the above **Answer: B** 8)bone inorganic matrix: **Hydroxyapatite**

### 9)cartilage originates from:

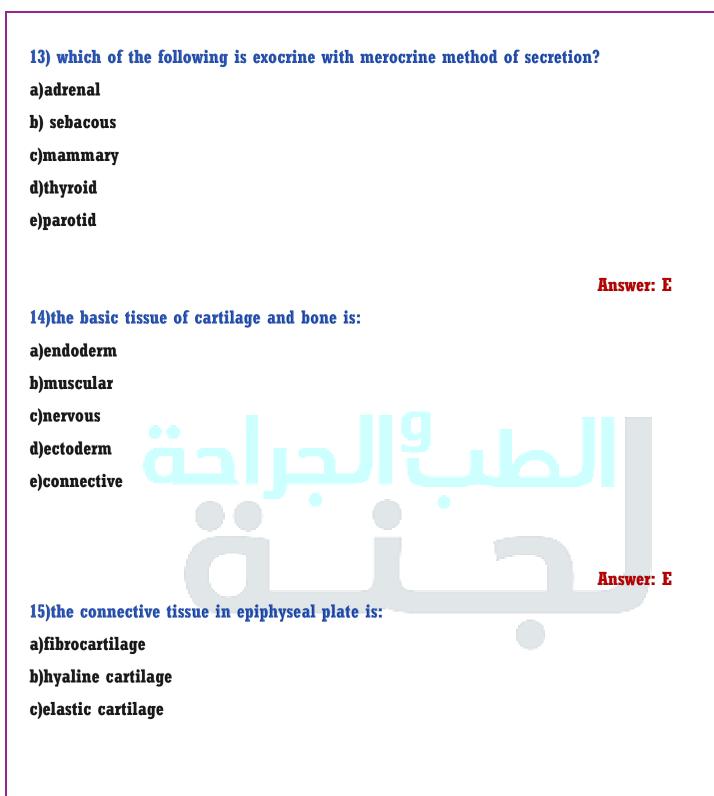
a)Endoderm

b)Ectoderm

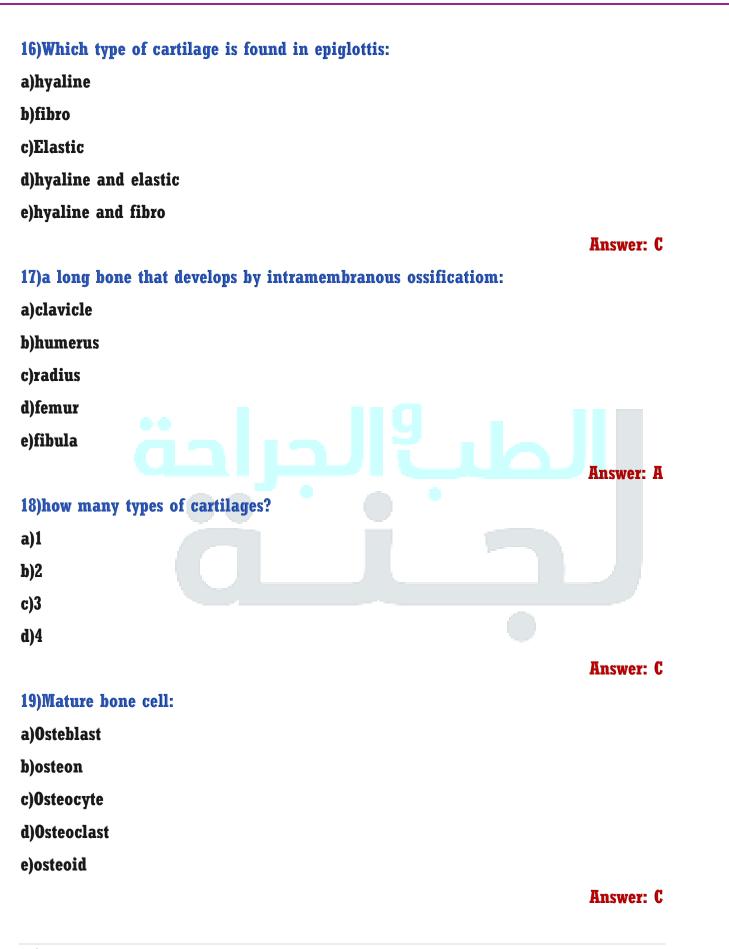
c)Mesenchym

d)Connective

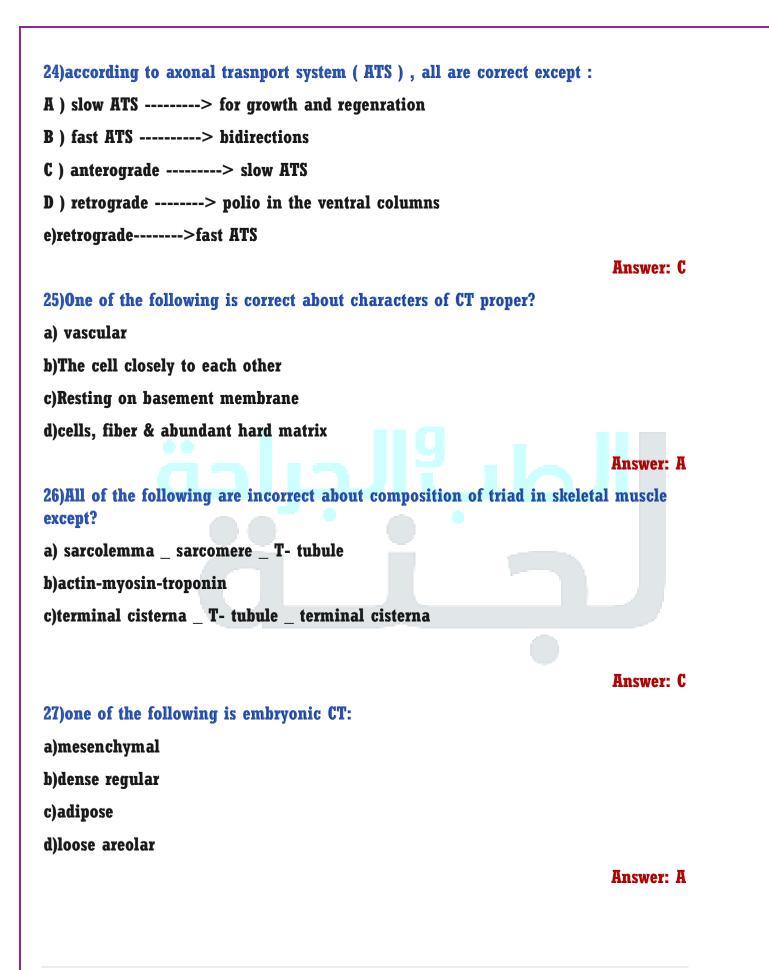




**Answer: B** 



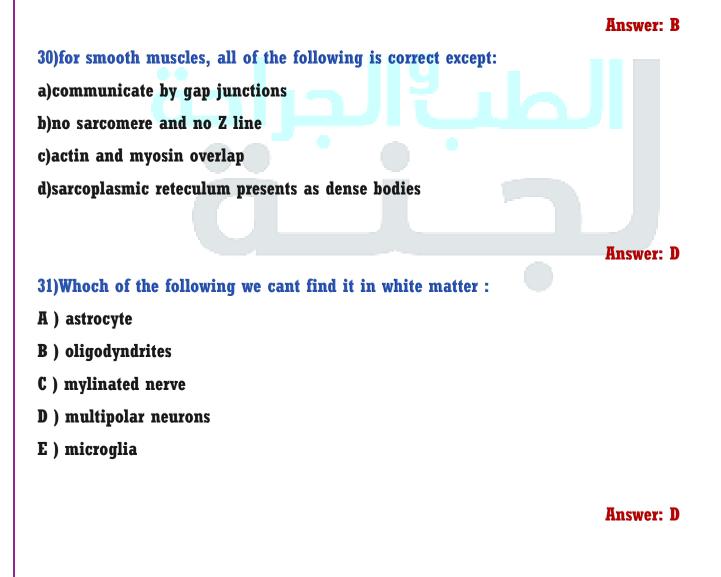




28)one of the following is not a cell rype regarding loose CT?
a)fibroblast
b)microglia
c)mast cells
29)one of the following is false according to epithelial tissue:

**Answer: B** 

29)one of the following is false according to epia)no lymphatic and blood vesselsb)no nervesc)have high ability to regenerate



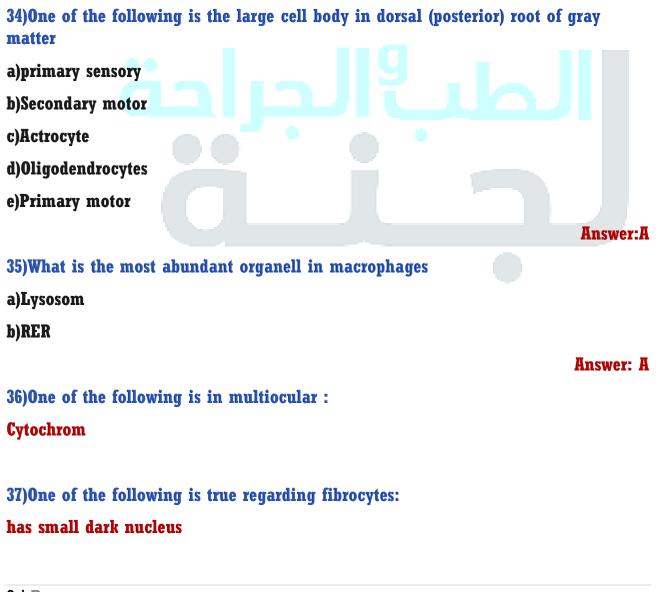
### 32)Pseudostratifired columnar ciliated epithelium:

### **Respiratory** system

### 33)When the nerve is injuried , what will occur at the perikaryon :

A) nucleus will go to the periphery
B) nissl bodies move to the axon
c)the perikaryon shrinks
d)nissl bodies increase in number

### Answer: A



# 38)All of these are non-myelinated region except: A)dendrites **B**)axon hillock **C)node of Ranvier D**)internodal segment **Answer: D 39)All the following arw ground substances of CT except:** a)GAg b)Myosin c)Prteoglacan d)Collagen e)fibronectin **Answer: B** 40)One of the following is not true : Microglia -- from ectodermal nural 41)Which one is incorrect about sacromere : **A)I band is isotronic B)** A band is aniostronic **C)** Z line bisect I band **D) H** zone transect **I** band **Answer: D** 43)macrophages in liver: **Kuppher cells**

### wateen med archive

1) One of the following is INCORRECT about the bone ? Select one:

a. The organic components are mainly formed by collagen type I

- b. The inorganic components are responsible for its rigidity
- c. Medullary bone mainly formed by trabeculae
- d. The periosteum covers the outer surfaces of bone trabeculae
- e. Compact bone and spongy bone have the same chemical composition

2) Reticulocytosis refers to-----

a. An increase in the number of reticular cells in the bone marrow.

b. A drop in the reticulocyte count of a blood film below 1%.

c. A rise in the reticulocyte count of a blood film more than 1%.

d. A rise in the reticulocyte count of a blood film more than 10 %. e. A rise in the reticular cell count in connective tissue

Answer: C

Answer: d

3) The leucocyte with the longest life spanis?

- a. Plasma cells
- b. Memory cells
- c. Lymphocytes
- d. Macrophages

### e. Cytotoxic T- cells

### **Answer: B**

Answer: b

### 4) The cell motility can be demonstrated in the following cells EXCEPT?

### A. red blood corpuscles.

- **B.** blood platelets.
- C. neutrophils.
- **D.** basophils.
- E. monocytes.

5) What type of tissue makes up the deep dermis of the skin?

- a. Mucoid connective tissue
- b. Reticular connective tissue
- c. Loose irregular connective fissue
- d. Dense irregular connective fissue
- e. Dense regular connective fissue

Answer: d

6) Class II MHC antigens are expressed on the following ce | | -----? Select one: a.EtheHa | ceHs

### b. Bone cells

- 0. Red blood cells
- d. T-lymphocytes
- e. Macrophages

Answer: E

7) The antigen for cluster of differentiation present in ?

- a. Different types of lymphocytes
- **b.** Granular leucocytes
- c. Glycocalyx of platelets
- d. Glycocalyx of RBCs
- e. Monocytes and macrophages

### 8) Which of the following is INCORRECTLY paired ?

a. Elastic cartilage.....does not calcify with age b. Articular cartilage......collagen type |

- c. Interstitial growth.....nasa | and costal cartilages
- d. Perichonderium ..... Eustachian tube
- e. Interstitial growth...... articular surfaces in joints

Answer: b

**Answer:** A

9) Pseudostratified Columnar ciliated epithelium is a feature of \_?

### Select one:

### a. Ureter

b. Skin

c. Kidney

d. Oviduct

e. Trachea

Answer: e

10) The blood picture of a young male patient showed the following values: RBCs count

5x 106 /mm3, total WBCs count 6000/ mm3, platelet count 100,000/ mm3. Accordingly, the comment on this blood picture would be?

### Select one:

- a. Acase of anemia.
- b. Acase of Ieucocytosis.
- c. A case of thrombocytopenia. D. Acase of thrombocytosis.
- e. Acase of leucopenia.
- 11) Which cell is a liver macrophage?

Select one:

- a. Fibroblast
- b. Kupffer cells
- c. Histiocyte
- d. Plasma cell
- e. Langerhans cell

Answer: b

Answer: c

12) Neuroepithelium is NOT present in one of the following?

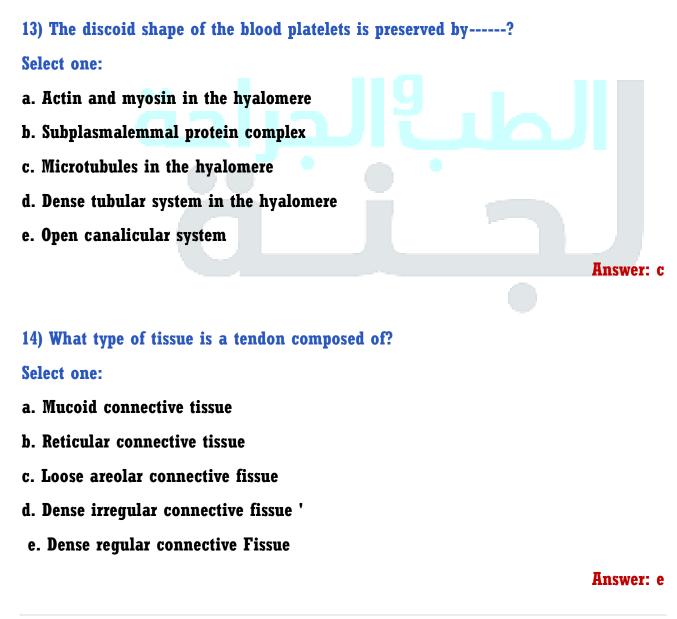
### Select one:

a. Taste buds.

### b.Refina.

- c. Seminiferous tubules.
- d. Ear
- e. Nose

### Answer: c



15) Which connective tissue cell is derived from B lymphocytes?

Select one:

- a. Fibroblast
- b. Macrophages
- c. Plasma cell
- d. Mast cell
- e. Alveolar macrophages

Answer: c

### 16) What cell surface modification is made of microtubules?



### 17) Which of the following is NOT primarily composed of connective fissue?

Select one:

a. Blood

b.Bone

c.Tendon

- d. Intervertebral disc
- e. Cardiac muscles

18) Which of the following components not found in the matrix of rib cartilage? Select one:

- a. Water
- b. Chondriotin sulphate
- c. Troponin
- d. Keratan sulphate
- e. Hyaluronic acid

### Answer: c

19) it is possible to identify the sex of a person by examining his blood film. This is by the observation of?

### Select one:

a. The surface antigens on the RBCs.

- b. Barr's body attached to the nuclear chromatin of lymphocytes.
- c. Barr's body attached to the nuclear chromatin of polymorphonuclear leucocytes.
- d. CDs antigen on the surface of leucocytes.
- e. MHC antigen

### Answer: C

### 20) One of the following is CORRECTLY matched?

### Select one:

- a. Woven bone..... osteoid
- b. Prebone.....secondary bone

- c. Bundle bone.....lamellar bone
- d. Bundle bone.....prebone
- e.Cancellous bone.....medullary bone

Answer: d

### 21) in a four years old child, his myeloid tissue comprises?

- a. Yellow bone marrow in all bones EXCEPT the proximal epiphyses of long bones.
- b. Red bone marrow in the flat bones and yellow marrow in the rest of his bones.
- c. Red bone marrow in the flat and long bones.
- d. Red bone marrow in flat bone only
- e. Yellow bone marrow the distal end of long bones.

22) Which of the following is NOT true regarding the osteon in compact bone?

a. The primary cell type within the mineralized bone of the osteon is the osteoclast

b. It is composed of concentric lameilae of mineralized material

c. Blood vessels reach the osteons from the bone marrow through the Volkmann's Canals

d. Lamellae in between osteons are called interstitial lameilae.

e. The central component is the Haversian Canal which contains blood vessels and nerves

Answer: a

### 23) One of the following is INCORRECT regarding the periosteum and endosteum?

a. The endosteum vascular fibrous sheath covering the exterior of flat and long bone

b. The periosteum has Sharpeys fibres

c. The cellular layer of the periosteum contains osteoprogenitor cells

- d. The articulating surfaces are not covered by the periosteum
- e. The endosteum contains single layer of squamous osteoprogenitor cells

Answer: a

24) One of the following is INCORRECT about structure and arrangement of the osteon?

- a. The collagen fibres arranged spirally within the osteon
- b. Outer circumferential Iamellae is a lameilar bone
- c. Interstitial Iamellae situated underneath the outer surface of the bone
- d. Interstitial Iamellae represents the remaining of old osteons
- e. Inner circumferential Iamellae located around the marrow cavity

Answer: c

### 25) Tarsal gland is \_?

- a. Simple coiled tubular gland.
- b. Simple branched tubular gland.
- c. Simple branched tubulo- alveolar gland. d. Compound tubular gland.
- e. Simple branched alveolar

### Answer: e

26) Which of the following would be best suited to differentiate reticular fibers from other fibers?

- a. Osmic acid
- b. Hematoxylin and eosin stain c. Sudan stain
- d. Silver stain
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### e. VVG stain

### 27) What type of tissue tends to increase as humans age?

- A . Loose areolar tissue
- b. White fibrous tissue
- c. Unilocular adipose tissue
- d. Multilocular adipose tissue
- e. No change with age

Answer: c

Answer: d

# 28) One of the following is CORRECTLY matched? a. Osteoblast-w—w—long cellular processes b. Osteoclast-mum- secrete acid phosphatase c. Osteocyte ------ inert cells d. Osteoblast ----- secrete coHagenase e. Osteoclast ----- secrete alkaline phosphatase

29) The blood picture of a patient shows a total leucocytic count 17,000/ mm3 and Lymphocytes 20 % this probably goes with the diagnosis of ------?

- a. Parasitic infection
- b. Acute bacterial infection c. Chronic infection
- d. Malaria
- e. Bronchial asthma

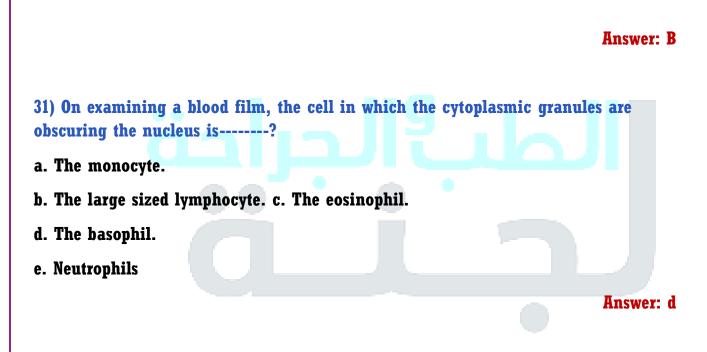
### Answer: b

### 30) Metachromasia —------?

- a. Staining of a tissue by the color of the original stain
- b. Staining of a tissue by a color differs from the original stain

c. Staining of granules of plasma cells by a red color after toludine blue d. Staining of phagocytic cells by trypan blue

e. Staining of granules of eoinophils by a red color after toludine blue



32) What do you call the simple squamous epithelium that lines the blood vessels?

- a. Epithelioid tissue b. Mesothelium
- c. Endothelium
- d. Transitional
- e. Pseudostratified

Answer: c

33) One of the following statements is correct concerning the gap junction ?

a. The intercellular space ls narrowed to about 3 nm.

- **b.** A type of anchoring junction.
- c. Its plaque is attached to actin filaments.

d. Integrin protein is a component of membrane protein e. Present between the cell and CT

### Answer: d

# 34) One of the following is INCORRECT concerning the Chondroblasts? Select one: a. They change to form chondrogenic cells b. They differentiated from the perichondrium c. They are not surrounded by lacunae d. They have basophilic cytoplasm e. They provide collagen and proteins 35) Which of the following is NOT a term used for a neutrophil? a. Polymorphonuclear b. Neutrophils c. Microphages d. Pus cell e. Mast cell of the blood

### 36) Each of the following statements concerning B cells is true EXCEPT?

a. They can differentiate into plasma cells

- b. They are derived from bone marrow
- c. They contain non specificgranules
- d. They kill virus-infected cells.
- e. They are responsible for humeral immune response

### 37) The lining epithelium of the pleura is?

### Select one :

- a. Simple columnar.
- b. Simple cuboidal.
- c. Simple squamous.
- d. Pseudostratified columnar.
- e. Mesothelium

### 38) One of the following glands is a holocrine one?

- a. Liver
- b. Sebaceous gland c. Mammary gland.
- d. thyroid gland.
- e. Parotid gland

Answer: b

Answer: e

**Answer: D** 

**39) How can neutrophils and monocytes reach an infection site from the blood stream?** 

- a. The blood vessels rupture at asite of infection
- b. Neutrophils and monocytes are amoeboid and can pass through capillary walls

c. They are small and diffuse across membranes just like food and gas molecules.

d. They move upstream in the lymph system

e. T-lymphocyte differentiates Into neutrophils and monocytes when it arrives at the site of infection

### **Answer: B**

40) Which one of these cells is not a cell type routinely found In loose connective tissue? Select one: a. Fibroblast b. Microglia c. Histiocyte d. Plasma cell e. Mast cell Answer: b Wareed med archive 1- one of the following is not a fixed cell : a-plasma cell **b-fibroblasts** c-fat cell d-pigment cell e-fibrocytes **Answer:** A 3- macrophages in CT is called:

a- Histocytes	
4- mast cells :	
a-secretion of histamine+heparine	
b- 1/2-1%of total count	
An	swer: A
5- cells that contain granules and metachromatic staining :	
mast cells	
6-origin from B-limphocytes :	
plasma cell	
7-cart wheel appearance of nucleus :	
plasma cell	
8- one of the following is not primary cartilage:	
a-tendon	
b-bone 🔴	
c-blood	
d-myometrium	
An	iswer: D
9-most abundant cell in loose areolar CT is :	
Fibroblasts	
10- sudan stain in :	
adipose CT	
25   Page	

12- ligaments are considered : regular dense CT

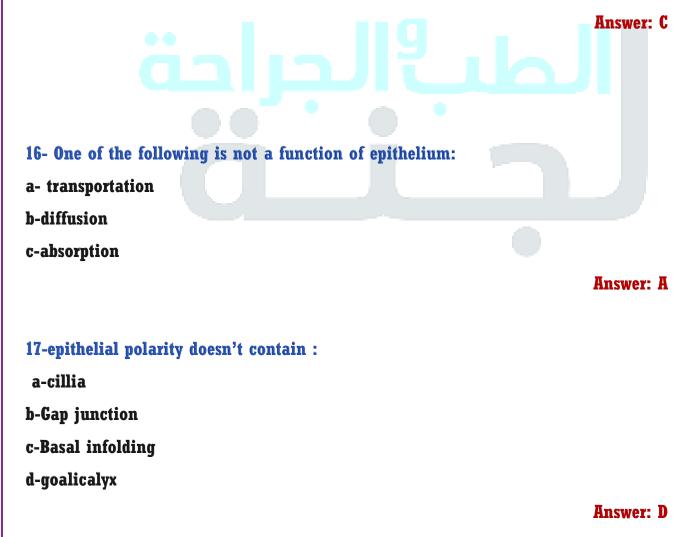
13- fibers type 1: white fibrous

**15-one is incorrect about myoepithelium :** 

a-contains secretory acini and ducts of the glands

b-irregular

c-contains RER



**18-kidney tubules: Contain basal infolding for reabsorption 19-apical modification in epididymis is:** Stereocilia 20-macula adherins : Contains intermediate keratin filament **21-One of the following is a function of basement membrane:** a-molecular filtration **b-excitability** c-prevent tissue regeneration d-contraction Answer: A 22-classification of epithelium is based on : a-Number of layeres 23-goblet cell is associated with: a-simple columnar epithelium 24-goblet cell is lined with: **Pseudostratified epithelium** 25-MicroVilia: a-increases surface area of absorption b- is very similar to cilia

# **Answer:** A **26-Lines abdominal cavity:** Mesothelium 27-what is the classification of the epithelium that lines the blood vessels : Endothelium 28- epithelium that lines the opening in the skin : squamous stratified **29-intermediate keratin filaments:** a-Dense plaque of macula adherence b-Zonula c-actin filaments Answer: A **30-not true regarding muscle fibers:** a-red fibers \_\_\_\_\_tire quickly b-red fibers \_\_\_\_precise movement Answer: A

**Answer: A** 

### 31- perichondrium is not essential in:

a-nasal+ costal cartilage

**b-** interstitial growth

32-in EM The correct describe to eosinophil : Granules with crystalloid dense core 33-The cell that doesn't have have MHC1 is: RBC

34-platelet is :

Not true cell

35-abundant granules in platelet granulomer is: Alpha granules

36-if the circulation of blood is slow so : Rouleaux formation

37- Differential count related to :
WBC (leukocytes)
38-all of blood cell are made in :
Bone marrow

39-which of these contain fibrocartilage: Articular disc in Tempromandibular joint

40- cell of CT macrophage: Histocyte

41-another name for acinar: Alveolar 42- True regarding mast cells of blood: contain histamine and heparin

43-Mode of secretion in milk secreting glands : Apocrine

44-not true regarding Myoepithelium : contain rER

45-sweat glands are : simple coiled tubular

46-actin, spectrin, ankyrin : Subplasmalemmal cytoskeleton

47-T.B results in : neutropenia and monocytosis

48-what is the type of the junction that attaches intercalated discs with thin filaments :

zonula adherent

49-Zonula adherent attaches to which filament :

Actin

50-which is the false :

**band** contraction

51-which is the false : cardiac muscles have satellite cells

52-diad Located in : Cardiac muscle At the Z line

53-triad is:

skeletal muscle between the T tubule and to terminal cisterna

54- epithelium in blood vessels is classified as : a-simple squamous epithelium **b-endothelium Answer:** A 55-resists tensile stress : **Dense regular CT white fibrous** 56-what is not in the matrix of the rib cartilage: Troponin 57-related to the appositional growth: **Perichondrium formed chondroblast which lie new matrix** 58- T tubule lies in: the level of the junction between A and I bands for skeletal muscle and Z line for cardiac muscle

59-which of the following doesn't classify: external ear

60-which is the first step in the collagen production: cleavage of propeptides

61-which is the embryonic connective tissue: mucosa tissue

62- which of the following is metched incorrect : elastic cartilage \_\_\_\_classify with aging

63- choose the incorrect answer about the smooth muscles : it has sacrotubules and T tubules

64-about cardiac muscles which is incorrect: the head of the myosin ratchet to the Z line during contraction

65-what is the intermediate filament that attaches to the macula adherence: Keratin

66-Bar body is present in: Neutrophils

67- differential leukocytes : the count of different WBCs to total count 68- regarding granulomere which one is correct:

presence of ribosomes

**69-echinocytes stand for :** 

### crenation

71- A blood picture of a patient shows the number of leukocytes 16.000 and the percentage of it's neutrophils 90%. the diagnosis is:

### acute infection

ورغمَ كُلِّ جُهدِ بُذِل وآخر يودُّ أن يُبذل فلا وصولَ لنا دونَ توفيقِ الله، ولا رجاء لنا سوى أن يحفّ التوفيقُ طريقنا ويُتوَّج نهايةً بالرِّضا التَّام.. هذه الليالي التي تسبقُ الامتحانات، والتي يملأها كلَّ شعور متناقض، هي التي تُعرِّفنا على قوّتنا، وهي التي تُوقظنا من متاهتنا. ونعودُ الآن لنقف بعد ألف سقوط، والأملُ يحتضنُ قلوبنا مُعلنًا استلامهُ للطريق، فنمضي سعيًّا دونَ انتظار الشغف، مُقبلون دونَ النَّظْرِ إلى خلف...

لجين الشروف