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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**
- e)Non of the above**

Answer: C

10)water concentration in cartilage matrix:

- a)0-40%**
- b)40-60%**
- c)60-80%**
- c)80-95%**

Answer: C

11)the skeleton of fetus is made up of:

- a)hyaline cartilage**
- b)elastic cartilage**
- c)fibrocartilage**
- d)spongy bone**
- e)compact bone**

Answer: A

12)which of the following is a multinucleated cell?

- *a)osteoclast**
- b)osteoblast**
- c)chondroblast**
- d)osteocyte**
- e)chondrocyte**

Answer:A

13) which of the following is exocrine with merocrine method of secretion?

- a)adrenal
- b) sebaceous
- c)mammary
- d)thyroid
- e)parotid

Answer: E

14)the basic tissue of cartilage and bone is:

- a)endoderm
- b)muscular
- c)nervous
- d)ectoderm
- e)connective

Answer: E

15)the connective tissue in epiphyseal plate is:

- a)fibrocartilage
- b)hyaline cartilage
- c)elastic cartilage

Answer: B

16)Which type of cartilage is found in epiglottis:

- a)hyaline**
- b)fibro**
- c)Elastic**
- d)hyaline and elastic**
- e)hyaline and fibro**

Answer: C

17)a long bone that develops by intramembranous ossification:

- a)clavicle**
- b)humerus**
- c)radius**
- d)femur**
- e)fibula**

Answer: A

18)how many types of cartilages?

- a)1**
- b)2**
- c)3**
- d)4**

Answer: C

19)Mature bone cell:

- a)Osteblast**
- b)osteon**
- c)Osteocyte**
- d)Osteoclast**
- e)osteoid**

Answer: C

20)mature cartilage cell:

- a)Osteoblast**
- b)chondroblast**
- c)Osteocyte**
- d)chondrocyte**
- e)osteoclast**

Answer: D

21)cell type whose number decreases with age?

- a)fibroblast**
- b)unilocular**
- c)multilocular**
- d)no effect of age on cell number**

Answer: C

22)immature bone:

- a)woven**
- b)secondary**
- c)compact**

Answer: A

23)extracellular matrix of connective tissue:

- a)cells and fibers**
- b)cells and ground substance**
- c)fibers and ground substance**

Answer: C

24)according to axonal transport system (ATS) , all are correct except :

- A) slow ATS -----> for growth and regeneration**
- B) fast ATS -----> bidirections**
- C) anterograde -----> slow ATS**
- D) retrograde -----> polio in the ventral columns**
- e)retrograde----->fast ATS**

Answer: C

25)One of the following is correct about characters of CT proper?

- a) vascular**
- b)The cell closely to each other**
- c)Resting on basement membrane**
- d)cells, fiber & abundant hard matrix**

Answer: A

26)All of the following are incorrect about composition of triad in skeletal muscle except?

- a) sarcolemma _ sarcomere _ T- tubule**
- b)actin-myosin-troponin**
- c)terminal cisterna _ T- tubule _ terminal cisterna**

Answer: C

27)one of the following is embryonic CT:

- a)mesenchymal**
- b)dense regular**
- c)adipose**
- d)loose areolar**

Answer: A

28)one of the following is not a cell rype regarding loose CT?

- a)fibroblast**
- b)microglia**
- c)mast cells**

Answer: B

29)one of the following is false according to epithelial tissue:

- a)no lymphatic and blood vessels**
- b)no nerves**
- c)have high ability to regenerate**

Answer: B

30)for smooth muscles, all of the following is correct except:

- a)communicate by gap junctions**
- b)no sarcomere and no Z line**
- c)actin and myosin overlap**
- d)sarcoplasmic reticulum presents as dense bodies**

Answer: D

31)Whoch of the following we cant find it in white matter :

- A) astrocyte**
- B) oligodyndrites**
- C) mylinated nerve**
- D) multipolar neurons**
- E) microglia**

Answer: D

32)Pseudostratified columnar ciliated epithelium:

Respiratory system

33)When the nerve is injured , 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

34)One of the following is the large cell body in dorsal (posterior) root of gray matter

- a)primary sensory**
- b)Secondary motor**
- c)Actrocyte**
- d)Oligodendrocytes**
- e)Primary motor**

Answer:A

35)What is the most abundant organell in macrophages

- a)Lysosom**
- b)RER**

Answer: A

36)One of the following is in multiocular :

Cytochrom

37)One of the following is true regarding fibrocytes:

has small dark nucleus

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 are ground substances of CT except:

- a)GAg**
- b)Myosin**
- c)Proteoglycan**
- d)Collagen**
- e)fibronectin**

Answer: B

40)One of the following is not true :

Microglia -- from ectodermal neural

41)Which one is incorrect about sarcomere :

- A)I band is isotonic**
- B) A band is anisotropic**
- C) Z line bisect I band**
- D) H zone transect I band**

Answer: D

43)macrophages in liver:

Kupfer cells

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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

Answer: d

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

3) The leucocyte with the longest life spanis?

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

e. Cytotoxic T- cells

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.

Answer: b

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

a. Muroid connective tissue

b. Reticular connective tissue

c. Loose irregular connective tissue

d. Dense irregular connective tissue

e. Dense regular connective tissue

Answer: d

6) Class II MHC antigens are expressed on the following cell type ———?

Select one:

a. Epithelial cells

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

Answer: A

8) Which of the following is INCORRECTLY paired ?

- a. Elastic cartilage.....does not calcify with age
- b. Articular cartilage.....collagen type I
- c. Interstitial growth.....nasa | and costal cartilages
- d. Perichondrium Eustachian tube
- e. Interstitial growth..... articular surfaces in joints

Answer: b

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. A case of anemia.**
- b. A case of leucocytosis.**
- c. A case of thrombocytopenia. D. A case of thrombocytosis.**
- e. A case of leucopenia.**

Answer: c

11) Which cell is a liver macrophage?

Select one:

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

Answer: b

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

13) The discoid shape of the blood platelets is preserved by-----?

Select one:

- a. Actin and myosin in the hyalomere
- b. Subplasmalemmal protein complex
- c. Microtubules in the hyalomere
- d. Dense tubular system in the hyalomere
- e. Open canalicular system

Answer: c

14) What type of tissue is a tendon composed of?

Select one:

- a. Muroid connective tissue
- b. Reticular connective tissue
- c. Loose areolar connective fissue
- d. Dense irregular connective fissue '
- e. Dense regular connective Fissue

Answer: e

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?

Select one:

- a. Microvilli
- b. Stereocilia
- c. Cilia
- d. Keratinization
- e. Flagella

Answer: c

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

Select one:

- a. Blood
- b. Bone
- c. Tendon
- d. Intervertebral disc
- e. Cardiac muscles

Answer: e

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. CD8 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 lamellae 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 lamellae.
- 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 lamellae is a lamellar bone
- c. Interstitial lamellae situated underneath the outer surface of the bone
- d. Interstitial lamellae represents the remaining of old osteons
- e. Inner circumferential lamellae 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

e. VVC stain

Answer: d

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

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**

Answer: c

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 toluidine blue**
- d. Staining of phagocytic cells by trypan blue**
- e. Staining of granules of eosinophils by a red color after toluidine blue**

Answer: B

31) On examining a blood film, the cell in which the cytoplasmic granules are obscuring the nucleus is-----?

- a. The monocyte.**
- b. The large sized lymphocyte.**
- c. The eosinophil.**
- d. The basophil.**
- e. Neutrophils**

Answer: d

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 is 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

Answer: a

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

Answer: E

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 specific granules**
- d. They kill virus-infected cells.**
- e. They are responsible for humeral immune response**

Answer: D

37) The lining epithelium of the pleura is?

Select one :

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

Answer: e

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

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

- a. The blood vessels rupture at a site 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

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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

Answer: 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

Answer: D

9-most abundant cell in loose areolar CT is :

Fibroblasts

10- sudan stain in :

adipose CT

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

Answer: C

16- One of the following is not a function of epithelium:

a- transportation

b-diffusion

c-absorption

Answer: A

17-epithelial polarity doesn't contain :

a-cilia

b-Gap junction

c-Basal infolding

d-goalicalyx

Answer: D

18-kidney tubules:

Contain basal infolding for reabsorption

19-apical modification in epididymis is:

Stereocilia

20-macula adherens :

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 layers

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

31- perichondrium is not essential in:

a-nasal+ costal cartilage

b- interstitial growth

Answer: A

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

الطبيب والجراحة
لجنة

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 matched 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

ورغم كلِّ جهدٍ بُذِلَ وآخر يودُّ أن يُبدلَ فلا وصولَ لنا دونَ توفيقِ الله، ولا رجاءَ لنا سوى أن يحفَّ التوفيقُ طريقنا ويَتَوَجَّ نِهائياً بِالرِّضَا التَّامِ.. هذه الليالي التي تسبقُ الامتحانات، والتي يملأها كلُّ شعورٍ متناقضٍ، هي التي تُعَرِّفنا على قوتنا، وهي التي تُوقظنا من متهانتنا. ونعودُ الآن لنقفَ بعد ألفِ سقوطٍ، والأملُ يحتضنُ قلوبنا مُعلنًا استلامه للطريق، فقمضي سعيًا دونَ انتظارِ الشَّغفِ، مُقبلون دونَ النَّظَرِ إلى خَلْفِ..

لُجَيْنُ الشُّرُوفِ

الطبيب الجراحة
لبننة