 One of the following is INCORRECT about the bone? 	
1) One of the following is inconnect 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?	
Select one:	
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?	
Select one:	
a. Plasma cells	
b. Memory cells	
c. Lymphocytes	
d. Macrophages	

e. Cytotoxic T- cells

Answer: B

a. The red blood corpuscles.	
b. The blood platelets.	
c. The neutrophils.	
d. The basophils.	
e. The monocytes.	
Answer: b	
5) What type of tissue makes up the deep dermis of the skin?	
Select one:	
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	a de 00
d. T-lymphocytes	الطب الجراحة
e. Macrophages	لجنتة
	•

Answer: E

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

Select one:

7) The antigen for cluster of differentiation present in ?	
Select one:	
a. Different types of lymphocytes	
b. Granular leucocytes	
c. Glycocalyx of platelets	
d. Glycocalyx of RBCs	
e. Monocytes and macrophages	Answer:
8) Which of the following is INCORRECTLY paired?	
Select one:	
a. Elastic cartilagedoes not calcify with age	
b. Articular cartilagecollagen type	
c. Interstitial growthnasa and costal cartilages	
d.PerichonderiumEustachian tube	
e. Interstitial growtharticular 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	الظَبِّ الجِراحة

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.	
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.	الطنع الخالجة
d. Ear	اهبانجراتها
e. Nose	
Answer: c	

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. Mucoid 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	% * W
e. Alveolar macrophages	الظنب الجراحة
Answer: c	رشاغا

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

Select one:

a. Actin and myosin in the hyalomere

b. Subplasmalemmal protein complex

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 fissue?	
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	So 4 .
Answer: c	بُ الجراحة
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16) What cell surface modification is made of microtubules?

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?

Select one:

- 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?

Select one:

- 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?

Select one:

- 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?

Select one:

- a. The collagen fibres arranged spirally within the osteon
- b. Outer circumferential lamellae is a lameilar 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 glar	nd is 2
23) Tarsargiar	iu is _:
Select one:	
a. Simple coiled tu	bular gland.
b. Simple branche	d tubular gland.
c. Simple branched	d tubulo- alveolar gland.
d. Compound tubu	ılar gland.
e. Simple branche	d alveolar
Answer: e	
Select one:	
Select one: a. Osmic acid	
b. Hematoxylin an	d eosin stain
c. Sudan stain	a cosm stani
d. Silver stain	
e. VVG stain	
Answer: d	
27) What type	e of tissue tends to increase as humans age?
Select one:	
3. Loose areolar ti	ssue
b. White fibrous ti	ssue

c. Unilocular adipose tissue

e. No change with age

Answer: c

d. Multilocular adipose tissue



28) One of the following is CORRECTLY matched?	
Select one:	
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/ m% this probably goes with the diagnosis of?	nm3 and Lymphocytes 20
Select one:	
a. Parasitic infection	
b. Acute bacterial infection	
c. Chronic infection	
d. Malaria	
e. Bronchial asthma	
	Answer: B
30) Metachromasia —-—?	
Select one:	
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	\$ * In 1

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Answer: b

d. Staining of phagocytic cells by trypan blue

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

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

Select one:

- 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?

Select one:

- 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



Answer: D

37) The lining epithelium ofthe 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?	
Select 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?
Select one:	
a. The blood vessels rupture ata site of infection	% * · · · · · · · · · · · · · · · · · ·
b. Neutrophils and monocytes are amoeboid and can pass through capillary walls	الطَّبُّ الْجَراحَة
c. They are small and diffuse across membranes just like food and gas molecules.	لجباه

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

d. They move upstream in the lymph system

Select one:

a. Fibroblast

b. Microglia

c. Histiocyte

d. Plasma cell

e. Mast cell

Answer: b

40) Which one of these cells is not a cell type routinely found In loose connective tissue?

