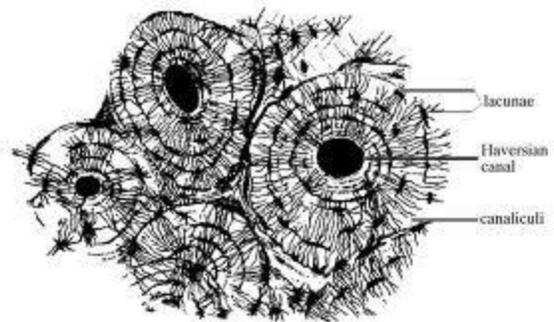


**MID-TERM MATERIAL:**

- 1) All of the following is true concerning plasma cell and mast cell EXCEPT:  
plasma cell depends in function on mast cell
- 2) A picture of loose CT ,, pointed at collagen ,elastic and a cell ( might be macrophage or fibroblast ) ,, choose the wrong statment ,, answer is : this tissue is found in dermis
- 3) In basal lamina, which is responsible of filtration?  
A-positive sulphate  
B-meshwork of collagen IV  
C- fibronectin ....  
D- glycoprotein collagen IV  
Answer: B
- 4) What is the wrong statement about adipocytes?  
It was about sympathetic innervation.
- 5) All of these structures are found in a bone trabeculam Except:  
Answer: Osteoprogenetior cells.
- 6) About complement proteins, the wrong statement is:  
They are chemeotactic factor for eosinophil or they are important to it's function.
- 7) What is responsible for tensile strength in collagen?  
A- Cross linking.  
B- Procollagen triple helix.  
C- Hydroxylation of proline into hydroxyproline.  
D- Propeptides deletion.  
E- Overlapping between head and tails of tropocollagen.
- 8) Wrong statement about bone resorption:  
Answer: Lysosomal enzymes are responsible 4 the dissolving of inorganic components.
- 9) Which of the following do plasma cell synthesise?  
A-IgA.

B-Histamine  
C-Heparin  
D-Prostaglandin  
Answer: IgA

- 10) In the adjacent section;  
What is the component that can  
be seen using the electron  
microscope? →



Answer: Canaliculi

- 11) What is wrong about mineralization?  
a- the combined local concentration of  $Ca^{++}$  and phosphate ions must be above a threshold value  
b- osteocalcin is produced by osteoclast  
c- the most important factor is matrix vesicle  
d- failure of mineralization leads to rickets in children  
e- osteoblast produces alkaline phosphatase

Answer: B

- 12) The wrong statement about long bone ends is:

Answer: The growing end fuses before the other end.

- 13) The wrong statement about glomeruli connection with vessels is:

Answer: Sometimes the basement membrane formed of a thick central lamina lucida with a lamina densa on the both sides.

14) Osteoclast picture,, this cell will be active in :

- A-osteopetrosis
- B-Chronic hypocalcemia
- C-Both
- D-Neither

Answer: B

15) Whats the function of laminin

- A- cell-cell adhesion
- B- filtration
- C- Fixes epithelium to basal lamina.

Answer : C

16) What is wrong about PLASMA CELL & MAST CELL ?

- a)Both from fibroblast
- b)One is stimulus & the other has a receptor
- c)Plasma cell need mast cell

Answer: C

17) There was a picture for compact bone (haversian system) under light microscope what is/ are the structure/s we can distinguish?

- a- osteoblast
- b- osteoclast
- c- osteocytes in their lacunae
- d- canaliculi
- e- more than one of the above

Answer D

18) What is common between the three types of cartilage?  
All lack blood vessels and lymphatics.

19) A picture of ( neutrophil cell + lymphocyte) .... what is the wrong statement:

a- they both act in acute inflammation

b- the cell number 1 (basophil) needs the mast cell to function properly.

c- the cell number 2 (lymphocyte) can differentiate to the plasma cell.

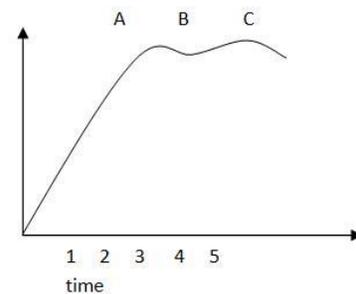
Answer: A

20) You won't find this in patients with Osteomalacia & Rickets.

Answer: Deficiency Of Osteoid .

21) One of the following is wrong:

Answer: c) Both A & B act as chemotoxins.



22) Extra lab question : What is the wrong statement concerning histological slide preparing?

Answer: hydration then sectioning.

23) Concerning bone and cartilage ; one of the following is wrong.  
Cartilage is sometimes CONVERTED to compact bone.

24) Practical: Mast cell photo, secretes what?

A-histamine

B-complement

C-kininogenase

D-more than one of the above

ANSWER: HISTAMINE

25) Wrong about Mast cell:

A- Originated from bone marrow.

B- Keeps wandering in the bloodstream then migrates to connective tissue.

Answer: B

26) All are true about collagen except :

a- Collagen type I responsible for for the acidophilia of bones.

b- Collagen type II responsible for for the basophilia of cartilage.

c- Collagen type III is argyrophilic

d- Collagen typeIV present in lamina densa

e- Collagen typeVII is anchoring fibers

Answer: B

27) The trabiculum contains all of the following except:

a- osteocytes inside lacunae

b- osteblasts and osteoclasts

c- osteoprogenitors

Answer: C

28) There was a picture of loose CT-choose the wrong statement :

- A- the thin line is elastic fiber
- B- the thick line is collagen
- C- the nucleus could be for fibroblaste or macrophage
- D- this tissue can be found in the dermis

ANSWER D

29) In the pointed structure (spongy bone cavity) , when examined by microscope you can find:

- a)Osteoprogenitor cell
- b)Osteblast
- c)Colaagen III
- d)More than one of the above

Answer: A

30) One of the following statements is wrong about adipocytes:

- a)Sympathatic innervation ends in both types within the capillries
- b)Unilocular adipocytes is present in female breast.
- c)Multilocular adipocytes are rich in mitochondria.

Answer: A

لجان الدفعات  
**Medical Committee**

**FINAL EXAM MATERIAL:**

ملاحظات :

\* قام بتدريس مادة علم الانسجة في هذا الفصل الدكتور فرج البسطامي والدكتور درويش بدران

\* امتحان الفايصل كان يتكون من 70 سؤال .. 40 سؤال نظري ، و 30 سؤال عملي كانت على شكل صور ابيض واسود على نفس ورقة الامتحان  
\* نذكر هذه الملاحظات لان الامور قد تختلف من فصل الى اخر بناء على عدد طلاب الدفعة وبناء على الدكاترة التي قد تدرس الدفعة

**Questions :**

#	Question	choices
1	The junction of communication and connection is :	a- gap junction b- desmosome c-tight junction
2	The wrong statement about zonula adherens is:	a- it's above zonula occludens b- it's below zonula occludens
3	Which of the following statements is false about exocrine glands :	a- contain serous balimodes b- salivary gland is mucous gland c-parotid gland is a serous gland
4	Which of the following statements is false about exocrine glands :	a- apocrine glands take the whole cell membrane with secretion b-holocrine glands take the whole cell membrane with secretions
5	Which of the following is not a feature of epithelium	a- cover the surface b- fast renewal c-slow renewal
6	Regarding muscle regeneration, which of the following statements is true?	a- cardiac muscle can't regenerate b- smooth muscle and skeletal muscle are able to regenerate because they

		have satellite cells c- all 3 types of muscle have different potentials for regeneration
7	What is meant by chromatolysis?	a- axonal disintegration b- nuclear disintegration
8	The type of collagen that is seen after a few days of surgery for a wound is :	a- type 1 b- type 2 c- type 3
9	Basal lamina is found in all of the following except :	a- fat tissue b- Schwann cells c- bone tissue d-uterus e-nervous tissue
10	Regarding cilia and microvilli , which sentence is correct :	a- cilia movement occurs in more than one direction ( back and forth ) b-cilia contain single myosin that contribute in forming the terminal web c - microvilli contain actin that contribute in the forming of terminal web
11	regarding the nervous tissue:	a- motor efferent fibers feed the muscles , exocrine and endocrine glands b- sensory afferent fibers can be excited by the environment
12	What is the wrong statement regarding cartilage :	a- fibrocartilage can grow by interstitial growth b- cartilage tissue has no nerves, lymph or blood vessels
13	The main organic component of bone is :	a- collagen type 1 b- collagen type 3 c- phosphate
14	Choose the wrong statement about microglial cells :	A - originate from bone marrow b - originate from embryonic germ disc
15	Wrong statement about epidermal :	A - it's inside the brain b - contain a basal lamina
16	About the astrocyte , which statement is false :	A - fibrous is found in white matter b - protoplasm is found in gray matter c- contain many processes جميع هذه الجمل وردت في الامتحان وكانت

		صحيحة ، اما الجملة الخاطئة فلم نستطع تذكرها
17	The best description for perikaryon is:	a- regenerative b- receives impulses + trophic
18	Choose the false statement about basal lamina :	a- it's absent in places where cell contact with each other
19	which statement correctly describes the cardiac muscle tissue	A – has triads b – fat is the main source for energy
20	regarding t-tubules, choose the false statement :	a- there are 2 of them in each skeletal muscle sarcomere. b – there is 1 in each cardiac muscle sarcomere <b>c- it's constituted of cristae</b>
21	regarding nervous tissue , which statement is false:	A – all nerve cells are differentiated b – pseudounipolar fibers end in the periphery
22	During contraction of muscle, which statement doesn't describe the fiber correctly	A – A short b – Z lines get closer c – I & H get short D – both a and b are wrong E – none of the above
23	which of the following statements is not true	A – SR in cardiac muscle is more develop than skeletal b – T-tubules number is greater in cardiac muscle than skeletal muscle
24	What is wrong about smooth muscle	a- don't contain a neuromuscular junction b – contain a typical neuromuscular junction !
25	What is the type of epithelium that is found in gall bladder ?	A – simple epithelium columnar b – simple epithelium columnar ciliated
26	According to types of fibers , which is wrong :	A – type 1 main source for energy is oxidative phos. b- thype 1 is rapid contraction c – type 2 main source for energy is glycolysis
27	What is the wrong statement about the initial segment :	a- it's the area where the summation occur b- it's myleniated c- it has golgi apparetus

28	Which is wrong about intercalated disks:	<p>A)Has desmosomes in vertical limb.          B)Desmosomes inserted into cytokeratin filaments.          C)Has gap junctions in horizontal limb.          D)Gap junctions provide ion continuity.</p> <p>E)They show the interface between two adjacent cardiac muscle fibers.</p>
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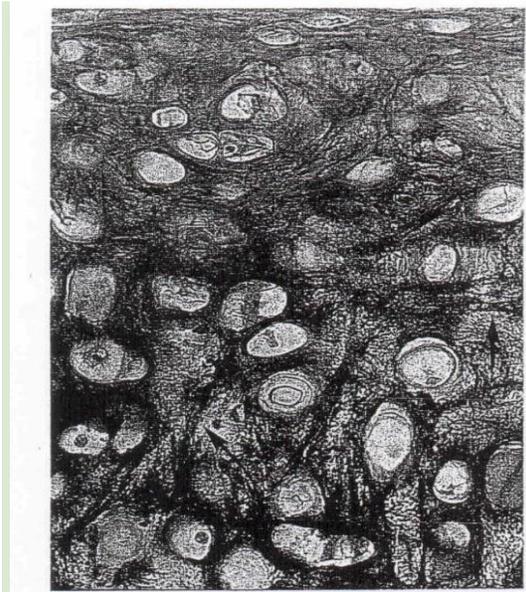
Num.	answer
1	a
2	a
3	a
4	a
5	c
6	B
7	b
8	c
9	e
10	C
11	A
12	A
13	a
14	B
15	B
16	
17	B
18	A
19	B
20	C
21	A ( not sure )
22	A
23	A
24	B
25	A
26	B
27	B or c not sure
28	B



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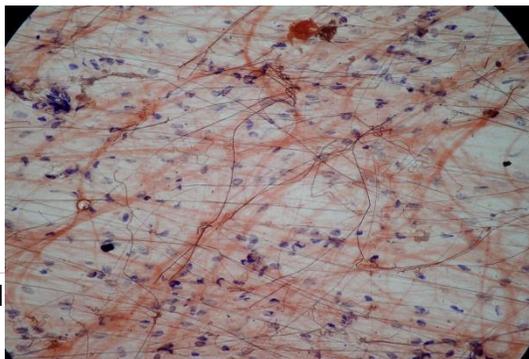
**Lab questions :** ( each question has 4 choices at least in the exam but we will mention only what we is remembered)

1 )in this tissue there is more than one kind of fibers ?



Answer : it's a picture for elastic fibers , and it may contain other type of fibers like collagen type 3

2) we can find this tissue in :



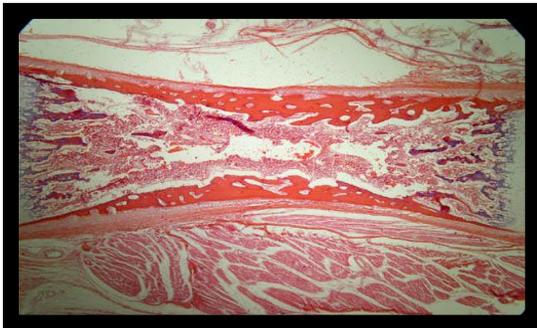
a- support most epithelial tissue

b – in septa

c- form lamina propria

d- all of the above

e – nothing of the above



answer : D

3) the true about this slide is :

a- it grows endochronial

b- it grows by cells from the

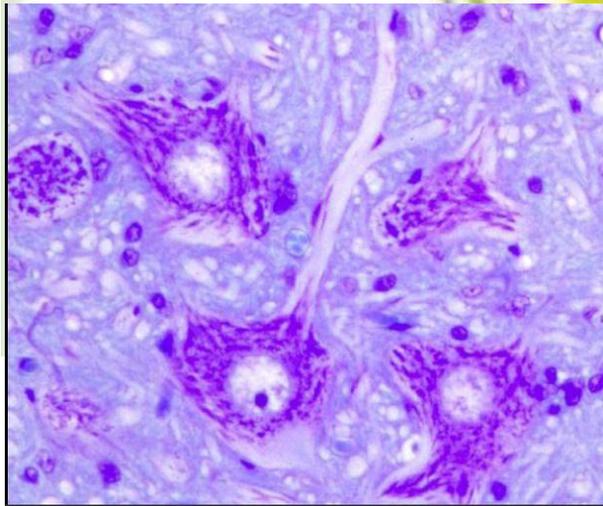
inside from perostiuem

c-both

d- nor

answer : C

4) the “ dots “ ! النقاط inside the body cell represent :



a- dendrites

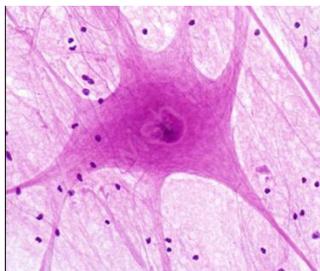
b- polyribosomes

c-both

d-nither

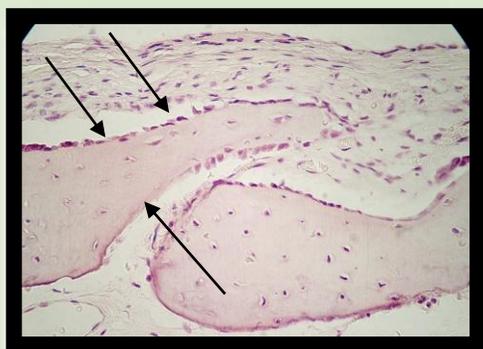
answer : B

5) the dark dots represent :



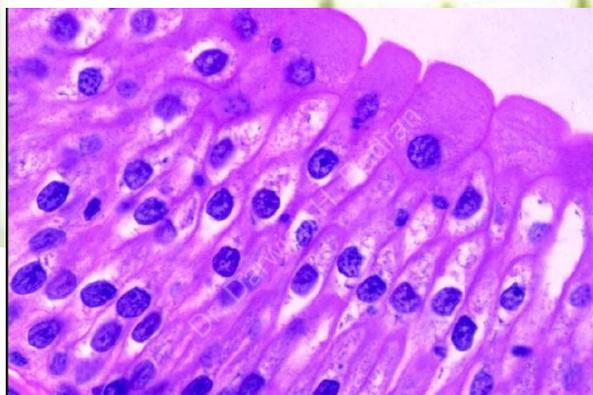
- a- dendrites
  - b- glial cells
  - c- polyribosomes
  - d- all of the above
- answer : B

6) in the pointed area , the correct stament is :



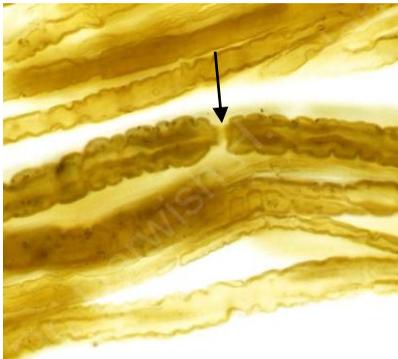
- a- there is 3 types of bone cells
  - b- there is no bone cells inside
  - c- nither are right
- answer : A

7) the cells in the following tissue are :



- a- stretched
  - b- relaxed
- answer : relaxed

8) the best description for the pointed area is :



- a- it's mylinated
- b- it's unmylinated

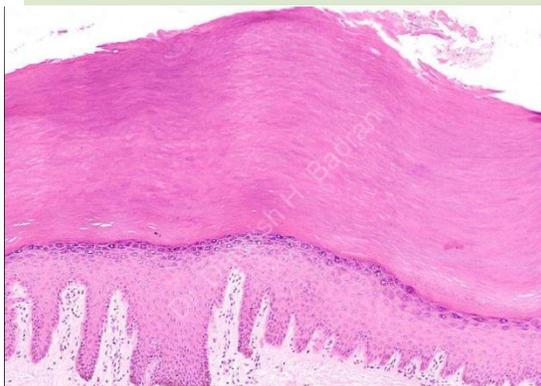
answer : B

9) inside the lacunes in this slide you can see :

- a- osteoblast
- b- osteoclast
- c- osteocyte

answer : osteocyte

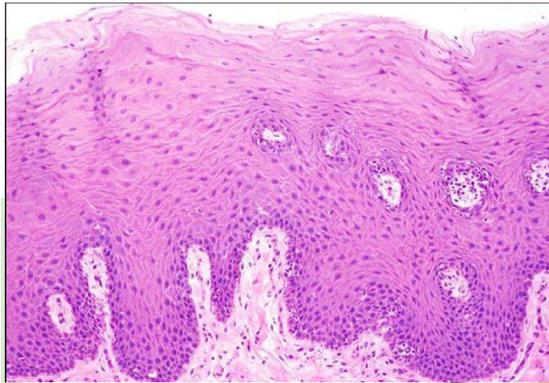
10) this tissue is :



- a- stratified squamous keratinized in skin
- b- stratified squamous keratinized in vagania

answer : A

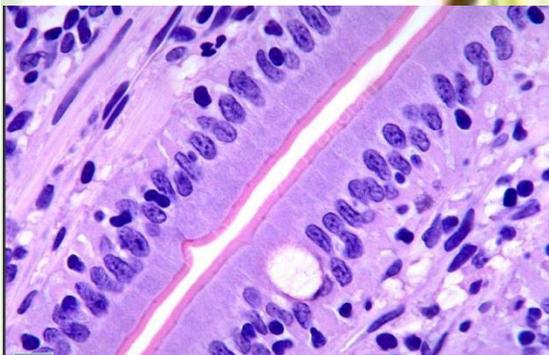
11 ) this tissue could be found in :



- a- skin
- b – vagina

answer : B

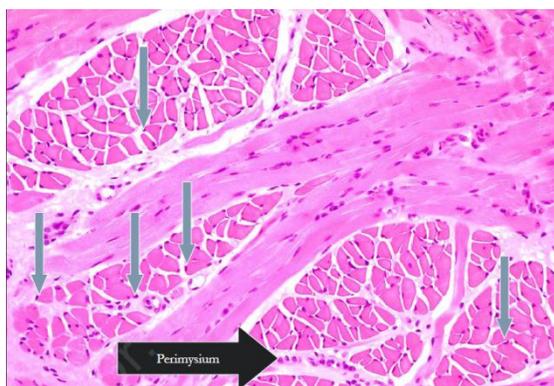
12 ) this tissue could be found in :



- a- intestine
- b- gall bladder
- c- skin
- d-all of the above

answer : A

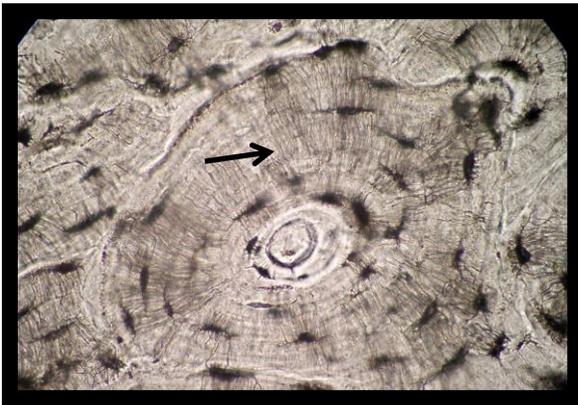
13) the best description for this tissue is :



- a – central nucleus
- b- peripheral nucleus

answer : B

14) the pointed structure is :



a- contain process from osteoblast that connect lacunae with each other.

b- contain process from osteocyte that connect lacune with each other

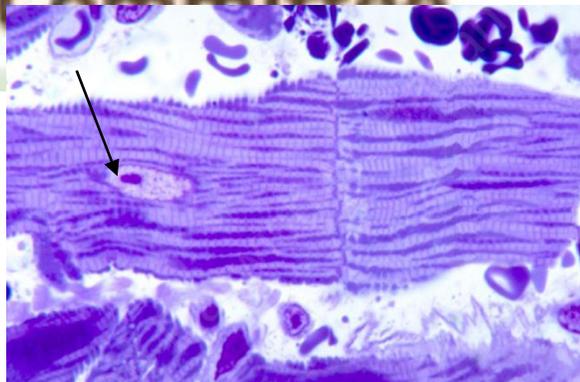
answer : B

15) the pointed structure is :

a- nucleus

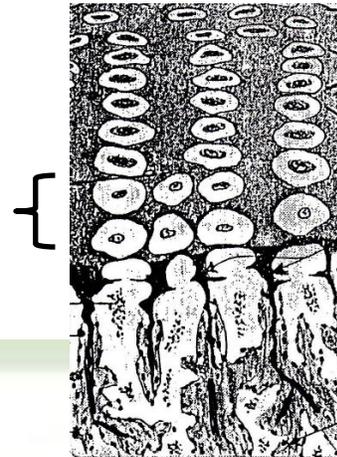
b- mitochondria

answer : B



16 ) the pointed area is :

- a- zone of ossification
- b- zone of proliferation
- c- the zone where bone is added
- d- a & C
- e- non of the above

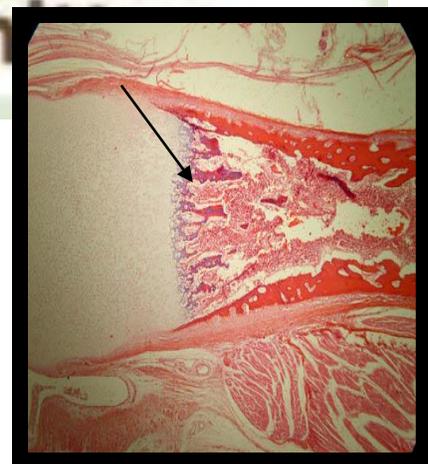


answer : D

17 ) the pointed area is :

- a- epiphysial plate
- b- diaphysial plate

answer : A

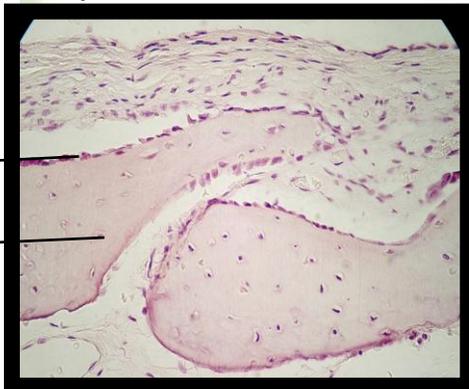


18 ) which statement is correct ?

- a- 1 will be absorbed
- b- 2 will be absorbed

answer : A

19 ) which statement is correct :



- a- 1 can convert to 2
- b- 2 can convert to 1

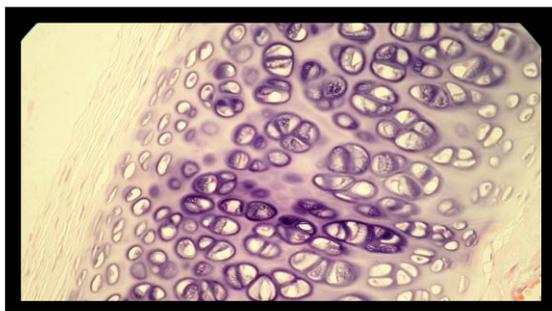
Answer : B

20 ) this tissue can form :



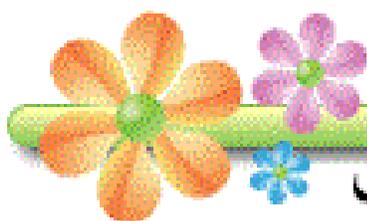
- a- tendon
- b-ligament
- c-both
- d-nether

answer : C



21 ) the wrong statement about this tissue :  
a- can grow appositionally every where  
b- it's hyaline cartilage

Answer : A



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