

# Histology: bones part 1 + cartilage

## Cartilage

First remember that:

Elastic = resilient \*\*\*\*  
Paucity = few = not abundant \*\*\*

1 – The cartilages are:

- A – Modified nervous tissue
- B – Vascular
- C – Have a nerve terminal
- D – Converted to bones with maturation

Answer: D

2 – A Layer of connective tissue that surrounds developing bones and protect cartilage called

- A – Lacuna
- B – Chondrocyte
- C – Fibers

D - Perichondrium

Answer: D

3 – Choose the true sentence:

- A – The perichondrium present in fibrocartilage
- B – The elastic cartilage is acidophilic
- C -the matrix manily composed collagen type II
- D – They all true

Answer: c

4 – When the matrix surrounds each lacuna it called:

- A – territorial
- B – Interterritorial

Answer: A

5 - \*\*\*\*THE main cells of cartilage are:

- A – Chondrocyte
- B – Chondroblast
- C – Chondrogenesis
- D – Mesenchymal

Answer: A

6 – When chondrocyte secrete new matrix within the cartilage and this causes it to grow in length. The pattern of growth is

- A – Appositional
- B – Interstitial

Answer: B

7 – Which type of cartilages is acidophilic?

- A – Elastic
- B – Fibrocartilage
- C – Hyaline
- D – They all basophilic

Answer: B

8 – \*\*\*the fibrocartilage found in all parts of arytenoids cartilage

True  
False

Answer: false. It's not present in the apices like the elastic

9 – The elastic composed of type II collagen + elastic fibers

True  
False

Answer: true

10 – The hyaline cartilages are more closely and larger

True  
False

Answer: false

# Bones part 1

Remember that: perforating fibers = sharpey fibers

1 – Bones are:

- A – Vascular
- B – Provide a storage site for Na and K
- C – Form skeleton formwork
- D – harder than cartilage
- E – C+D

Answer: E

2 – Area of bone which ligaments and tendons attach and serve mechanical function

- A – Trabecular bone
- B – Spongy bones
- C – Compact bones
- D – Cancellous bone

Answer: c

3 – The morphofunctional unit of bone is:

- A – Lamella

- B – Osteon
- C – Haversian system
- D – B+C

Answer: D

4 – Rings around central canal:

- A – Lacunae
- B – Lamellae
- C – Canaliculi
- D – None of the above

Answer: B

5 – Considered as a transport system:

- A – Lamella
- B – Lacuna
- C – Canaliculi
- D – Central canal

Answer: C

6 – A thin specialized connective tissue that line the marrow cavities and supplies:

- A – Endosteum
- B – Periosteum
- C – Osteocyte

Answer: A

7 – Choose the true option:

- A –the osteoprogenitor present in the periosteum and endosteum
- B – The osteocyte form the osteoblast
- C – Entrapped osteoblaste are called chondrocyte
- D – A+B

Answer: A

8 - \*\*\*\*\* why do you think that the embryo must has a good O2 supply?

Because if the low O2 tension cause change the osteoblasts into chondrogenic

Done  
Sara darweesh