

**1. The most common type of cartilage is**

- A. Hyaline cartilage.
- B. Yellow elastic fibro-cartilage.
- C. White fibro-cartilage.
- D. None of the above

2. Regarding cartilage all of the following is correct except.....

- A. It is a special type of connective tissue
- B. It is hard in consistency
- C. It is non-vascular
- D. None of the above

3. Regarding hyaline cartilage which of the following is correct

- A. In fresh state it appears white
- B. It is surrounded by periosteum
- C. It is firm or rigid in consistency with some degree of flexibility
- D. All of the above

4. Outer fibrous layer of perichondrium is rich in.....

- A. Collagen fibers type I
- B. Collagen fibers type II
- C. Elastic fibers
- D. Reticular fibers

5. Regarding perichondrium which of the following is correct

- A. It is non-vascular
- B. It is formed of 3 layers
- C. The outer fibrous layer is responsible for new cartilage formation
- D. It acts as source of O₂ + nutrients to the cartilage cells

1. A

2. B

3. C

4. A

5. D



6. Perichondrium surrounds hyaline cartilage at all of the following sites except.....:

- A. Articular surface of joints.
- B. Costal cartilage in the thoracic cage.
- C. Nose
- D. Trachea and bronchi.

7. Regarding young chondrocytes all of the following is correct except.....

- A. They arise from the inner chondrogenic layer of perichondrium
- B. They are flat cells with open-face nuclei and pale basophilic cytoplasm
- C. They are present singly in their lacunae
- D. They are present deep in the cartilage

8. Which of the following form cell nests

- A. Chondroblast
- B. Young chondrocytes
- C. Mature chondrocytes
- D. All of the above

9. Regarding old chondrocytes which of the following is correct.....

- A. They are present at the periphery of the cartilage
- B. They synthesize and secrete the components of the cartilage matrix
- C. They are present in rows parallel to the perichondrium
- D. They are semicircular in shape when single

10. All of the following are characters of mature chondrocytes except.....

- A. They are responsible for growth of the cartilage as they can divide
- B. They have rounded and open face nuclei.
- C. They have granular, acidophilic cytoplasm
- D. The surface show short cytoplasm processes by EM

6. A

7. D

8. C

9. B

10.C

**11. All of the following is correct regarding matrix of hyaline cartilage except**

- A. It is rubbery in consistency.
- B. It is non-vascular.
- C. Tissue fluid constitutes 40% of the weight of the matrix.
- D. It shows strong PAS positivity

12. The matrix of hyaline cartilage appearsby H & E

- A. Homogenous basophilic
- B. Heterogenous basophilic
- C. Acidophilic
- D. Not stained by H & E

13. The matrix of hyaline cartilage appears homogenous basophilic by H & E due to presence of.....

- A. Chondronectin
- B. Chondrocalcin
- C. Collagen fibres
- D. Sulphated glycosaminoglycans

14. The matrix of hyaline cartilage consists of.....

- A. Collagen fibers type I
- B. Collagen fibers type II
- C. Elastic fibers
- D. Reticular fibers

15. Collagen fibres form about..... of the dry weight of hyaline cartilage matrix

- A. 25 %
- B. 40 %
- C. 75 %
- D. 90 %

11.C

12.A

13.D

14.B

15.B

**16. The glycoprotein present in hyaline cartilage matrix is called.....?**

- A. Chondronectin
- B. Chondrocalcin.
- C. Osteonectin
- D. None of the above

17. Hyaline cartilage is present in all of the following except

- A. Articular surface of bones.
- B. Costal cartilage in the thoracic cage.
- C. Nose
- D. Auricle of the ear.

18. The majority of the fetal skeleton is formed of.....

- A. Hyaline cartilage.
- B. Yellow elastic fibro-cartilage.
- C. White fibro-cartilage.
- D. None of the above

19. Regarding yellow elastic fibro-cartilage which of the following is correct.....

- A. The matrix contains collagen type I in addition to collagen type II fibers
- B. Can be stained by Verhoef's stain
- C. In fresh state it appears translucent pale blue
- D. It is not surrounded by perichondrium

20. Yellow elastic fibro-cartilage is present in all of the following except.....

- A. External auditory meatus.
- B. Eustachian tube.
- C. Trachea and bronchi
- D. Epiglottis Histiocytes

16.A

17.D

18.A

19.B

20.C

**21. White fibro-cartilage contains.....**

- A. Collagen fibers type I
- B. Collagen fibers type II
- C. Elastic fibers
- D. A & B

22. The matrix of white fibro-cartilage appearsby H & E

- A. Homogenous basophilic
- B. Heterogenous basophilic
- C. Acidophilic
- D. Not stained by H & E

23. Type of collagen mainly present in white fibro-cartilage is.....

- A. Collagen type I
- B. Collagen type II
- C. Collagen type III
- D. Collagen type IV

24. Regarding white fibro-cartilage all of the following is correct except.....

- A. It is a tissue intermediate between dense C. T. and hyaline cartilage.
- B. It is covered by perichondrium
- C. It is white in color in fresh state.
- D. It is tense and resists stretch due to presence of collagen fibers

25. Type of cartilage present in intervertebral discs is.....

- A. Hyaline cartilage.
- B. Yellow elastic fibro-cartilage.
- C. White fibro-cartilage.
- D. None of the above

26. White fibro-cartilage is present in.....

- A. Semilunar cartilage of knee joints.
- B. Symphysis pubis.
- C. Lips of glenoid cavity.
- D. All of the above

21.D

22.C

23.A

24.B

25.C

26.D