



# Quiz Time

History 7&8&9

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## Histology 7+8+9

1) What is the main component of connective tissue?

- a) Cells
- b) Extracellular matrix
- c) Blood vessels
- d) Nerves

Ans: b

2) Which embryonic layer gives rise to connective tissue?

- a) Ectoderm
- b) Endoderm
- c) Mesoderm
- d) Neural crest

Ans: c

3) Which of the following is NOT a function of connective tissue?

- a) Support
- b) Protection
- c) Absorption
- d) Storage

Ans: c

4) The most abundant protein in the human body, found in connective tissue, is:

- a) Actin
- b) Myosin
- c) Collagen
- d) Elastin

Ans: c

## Histology 7+8+9

5) Which connective tissue type is responsible for resisting tensile stress?

- a) Reticular connective tissue
- b) Loose connective tissue
- c) Dense connective tissue
- d) Mucoid connective tissue

Ans:c

6) Which type of collagen is found in basal laminae?

- a) Type I
- b) Type II
- c) Type III
- d) Type IV

Ans:d

7) The major cell type responsible for producing connective tissue fibers is:

- a) Macrophages
- b) Fibroblasts
- c) Mast cells
- d) Plasma cells

Ans:b

8) What is the primary function of adipose connective tissue?

- a) Nutrient exchange
- b) Protection and insulation
- c) Blood filtration
- d) Structural support

Ans:b

## Histology 7+8+9

9) Reticular fibers are primarily composed of which type of collagen?

- a) Type I
- b) Type II
- c) Type III
- d) Type IV

Ans:c

10) Which glycosaminoglycan (GAG) is non-sulfated?

- a) Chondroitin sulfate
- b) Dermatan sulfate
- c) Heparan sulfate
- d) Hyaluronic acid

Ans:d

11) Which of the following is a characteristic of elastic fibers?

- a) Provides rigidity
- b) Resists compression
- c) Stains with silver
- d) Allows tissues to stretch and recoil

Ans:d

12) The ground substance of connective tissue contains all EXCEPT:

- a) Glycosaminoglycans
- b) Proteoglycans
- c) Glycoproteins
- d) Hemoglobin

Ans:d

## Histology 7+8+9

13) Which connective tissue type is found in tendons?

- a) Loose connective tissue
- b) Dense irregular connective tissue
- c) Dense regular connective tissue
- d) Reticular connective tissue

Ans:c

14) Plasma cells are derived from:

- a) Monocytes
- b) T-lymphocytes
- c) B-lymphocytes
- d) Fibroblasts

Ans:c

15) The major function of mast cells is:

- a) Phagocytosis
- b) Production of antibodies
- c) Secretion of histamine and inflammatory mediators
- d) Supporting reticular fibers

Ans:c

16) Brown adipose tissue is primarily involved in:

- a) Energy storage
- b) Heat production
- c) Nutrient absorption
- d) Collagen synthesis

Ans:b

# Histology 7+8+9

17) The connective tissue layer surrounding cartilage is called:

- a) Periosteum
- b) Perichondrium
- c) Endosteum
- d) Epimysium

Ans:b

18) Which connective tissue type forms the internal framework of lymphoid organs?

- a) Loose connective tissue
- b) Reticular connective tissue
- c) Dense regular connective tissue
- d) Elastic connective tissue

Ans:b

19) Which connective tissue type is found in the umbilical cord?

- a) Adipose tissue
- b) Elastic connective tissue
- c) Mucoïd connective tissue
- d) Dense connective tissue

Ans:c

20) Which of the following cells is a phagocyte?

- a) Fibroblast
- b) Plasma cell
- c) Macrophage
- d) Mast cell

Ans:c

## Histology 7+8+9

21) What gives brown adipose tissue its color?

- a) Hemoglobin
- b) Melanin
- c) Mitochondria and capillaries
- d) Carotene

ans:c

22) Which fiber type provides tensile strength?

- a) Reticular fibers
- b) Elastic fibers
- c) Collagen fibers
- d) None of the above

Ans:c

23) The function of proteoglycans in ground substance is:

- a) Provide rigidity
- b) Bind water and resist compression
- c) Form fibers
- d) Conduct electrical impulses

Ans:b

24) Which connective tissue component acts as a shock absorber?

- a) Collagen fibers
- b) Elastic fibers
- c) Adipose tissue
- d) Reticular fibers

Ans:c

## Histology 7+8+9

25)Collagen fibers are the most abundant fibers in connective tissue.

- a) True
- b) False

Answers:a

26)Adipose tissue is highly vascularized

- a)True
- b)False

Answers:a

27)Dense regular connective tissue is found in dermis and organ capsules.

- a)True
- b) False

Answers:b

28) Hyaluronic acid is a sulfated glycosaminoglycan.

- a)True
- b)False

Answers:b

29) Mast cells store and release histamine.

- a)True
- b)False

Ans:a

30) Reticular fibers are composed mainly of Type IV collagen.

- a)True
- b) False

Answers:b