



# NSEB 11<sup>th</sup> 2026

## DPP-03

### Structural Organization in Animals

1. Which of the following cells of areolar connective tissue secrete histamine?  
 (A) Macrophages      (B) Mast cells  
 (C) Fibroblasts      (D) Histiocytes
2. Except blood, which of the following are the three basic components of all type of connective tissue?  
 (A) Fibres, cells and ground substances.  
 (B) Fibroblast, elastin fibres and collagen.  
 (C) Dust cells, lymphocytes and adipocyte.  
 (D) Alveoli, veins and capillaries.
3. White and yellow fibres are made up of \_\_\_\_\_ and \_\_\_\_\_ proteins.  
 (A) reticulin, elastin      (B) collagen, elastin  
 (C) elastin, collagen      (D) collagen, reticulin
4. Select the incorrect statement.  
 (A) Collagen fibres are the most widespread.  
 (B) The fibres provide strength, flexibility and elasticity to the tissues.  
 (C) Plasma cells are also known as cart wheel cells.  
 (D) None of these
5. Function of connective tissue is;  
 (A) linking of tissue.  
 (B) supporting tissue.  
 (C) covering external body surface.  
 (D) Both (A) and (B)
6. Fibers are present in all connective tissue except;  
 (A) Adipose tissue      (B) Cartilage  
 (C) Bone      (D) Blood
7. Among the following which component provide strength, elasticity & flexibility to connective tissue?  
 (A) Collagen and elastin fibres.  
 (B) Macrophages and eosinophils.  
 (C) Mast cells and fibroblast.  
 (D) Fibroblasts and eosinophils.
8. Which of the following fibres are white in colour and made up of collagen protein?  
 (A) Collagen  
 (B) Elastic  
 (C) Reticulate  
 (D) None of these
9. Which of the following tissue is most abundant tissue in complex animals?  
 (A) Neural tissue  
 (B) Muscular tissue  
 (C) Epithelial tissue  
 (D) Connective tissue
10. Which of the following cannot be a function of connective tissue?  
 (A) Bind tissues together  
 (B) Provide strength to tissue  
 (C) Insulation of other tissue  
 (D) Contractibility and excitability
11. Collagen fibres are made up of;  
 (A) Fats  
 (B) Carbohydrates  
 (C) Proteins  
 (D) Nucleic acids
12. Which of the following is not the function of fibres?  
 (A) Elasticity  
 (B) Flexibility  
 (C) Strength  
 (D) Rigidity



13. **Statement-I:** Lymphocytes are red blood cells that help the body fight against infections.

**Statement-II:** Mast cells secrete fibres and matrix.

- (A) Statement I and Statement II both are correct.  
 (B) Statement I is correct, but statement II is incorrect.  
 (C) Statement I is incorrect, but Statement II is correct.  
 (D) Statement I and Statement II both are incorrect.

14. **Assertion (A):** Connective tissues are most abundant and widely distributed in the body of complex animals.

**Reason (R):** Connective tissues link and support other tissues or organs of the body.

- (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is a correct explanation of Assertion (A).  
 (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not a correct explanation of Assertion (A).  
 (C) Assertion (A) is true, and Reason (R) is false.  
 (D) Assertion (A) is false, and Reason (R) is true.

15. Match List-I with List-II to find out the correct option.

List-I		List-II	
I	Mast cells	A	Store fat
II	Macrophage	B	Show allergy
III	Eosinophils	C	Phagocytosis
IV	Adipocytes	D	Secrete heparin

- (A) I-A, II-C, III-D, IV-B  
 (B) I-D, II-C, III-B, IV-A  
 (C) I-B, II-D, III-C, IV-A  
 (D) I-C, II-A, III-D, IV-B



## Answer Key

1. (B)
2. (A)
3. (B)
4. (D)
5. (D)
6. (D)
7. (A)
8. (A)

9. (D)
10. (D)
11. (C)
12. (D)
13. (D)
14. (A)
15. (B)

