

**SAINIK SCHOOL GOPALGANJ  
ASSIGNMENTS  
BIOLOGY**

**Chapter 07 : Structural Organization of Animals**

**Class: XI**

***General Instructions***

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1. *All questions are compulsory.*
  2. *Question 1 to 10 is multiple choice questions.*
  3. *Question 11 to 15 is short answer questions.*
  4. *Question 16 to 20 is long answer questions*
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1. \_\_\_\_\_ is a merocrine gland
  - a) Pineal Gland
  - b) Sebaceous Gland
  - c) Salivary Gland
  - d) None of the above
2. Antigens are typically found in
  - a) Plasma
  - b) Cell surface
  - c) Nuclear membrane
  - d) None of the above
3. \_\_\_\_\_ is the enzyme need for muscle contraction. It is present in Myosin.
  - a) Actin
  - b) Trypsin
  - c) ATPase
  - d) None of the above
4. The basement membrane is derived from \_\_\_\_\_
  - a) Myosin
  - b) Pachyderm
  - c) Endoderm
  - d) Epidermis & connective tissue
5. \_\_\_\_\_ are blood cells that transport oxygen through the bloodstream
  - a) Leukocytes
  - b) Erythrocytes
  - c) Platelets
  - d) None of the above
6. The bone is a natural reservoir for \_\_\_\_\_
  - a) Fluorine
  - b) Water
  - c) Calcium
  - d) Iron
7. The soft gelatinous tissue found inside bones is called
  - a) Bone effusion
  - b) Bone marrow
  - c) Bone abscess
  - d) None of the above

8. Radiation does more damage to cancer cells when compared to normal cells because

- a) Cancer cells do not multiply often
- b) Cancer cells do not have access to nutrition
- c) Cancer cells have a weak cellular structure
- d) Cancer cells undergo rapid division

9. \_\_\_\_\_ cells line the blood capillaries

- a) Alpha cells
- b) Endothelial Cells
- c) Oxyntic cells
- d) None of the above

10. Antibodies are chemically \_\_\_\_\_.

- a) Fats
- b) Foreign pathogens
- c) Actin
- d) Proteins

11. Name the major classes of plasma protein and describe their functions.

12. Differentiate in between

- (a) Tendon and ligament
- (b) Plasma and lymph

13. Draw a labeled diagram of nephron.

14. Why muscle cells and neurons don't have power of division?

15. Give the functions of various types of cells found in areolar tissue.

16. Describe various types of epithelia found in the animals.

17. List the differences between the striated, smooth and cardiac muscle fibres.

18. Explain the formed components of human blood.

19. Explain the structure of a mammalian bone.

20. Write short notes on

- (a) Haemopoiesis
- (b) A-band and I-band
- (c) Sarcoplasmic reticulum
- (d) Bipolar neurons
- (e) Haversian system