



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2023-24**  
**MONDAY TEST**

**CLASS: IX**  
**SUBJECT: BIOLOGY**

**FULL MARKS: 40**  
**DATE: 6.11.23**

**General Instructions:**

- The paper consists of three printed pages.
- Answers should be to the point.
- Copy the question number carefully before answering the questions.
- Marks will be deducted for spelling errors.

- 1. Choose the correct answer:** [5]
- a. Assertion (A) – Mitochondria is known as power house of the cell.  
Reason (R) – ATP is produced during Krebs cycle.  
i. A is true and R is false  
ii. A is true and R is true  
iii. Both A and R are false  
iv. A is false and R is true.
- b. Assertion (A) – Mammals serve their young ones with milk from mammary gland.  
Reason (R) – Mammary gland is a modified sebaceous gland.  
i. A is true and R is false  
ii. A is true and R is true  
iii. Both A and R are false  
iv. A is false and R is true
- c. Sreeshant is a bowler in India cricket team, but he had to undergo a surgery in his elbow due to which he could not play few games. Which joint is found in this area?  
i. Ball and Socket Joint  
ii. Hinge Joint  
iii. Pivot Joint  
iv. Gliding Joint
- d. Aviraj saw his grandmother suffering from knee problem. She could not walk properly as the fluid in the knee joint was drying up. Identify the fluid which is drying up in the knee joint.  
i. Cartilage  
ii. Lymph  
iii. Synovial Fluid  
iv. Cerebrospinal fluid

e. Sweat gland secretes \_\_\_\_\_ fluid.

- i. Saliva
- ii. Sebum
- iii. Sweat
- iv. Lysozyme

2. Fill in the blanks:

[5]

The external surface of the bone is covered by a membrane called \_\_\_\_a\_\_\_\_.

A long bone has a hollow cavity in the middle which is filled with \_\_\_\_b\_\_\_\_.

The upper part of the skull is known as \_\_\_\_c\_\_\_\_. The back part of the skull contains a large hole, known as the \_\_\_\_d\_\_\_\_, through which the \_\_\_\_e\_\_\_\_ emerges out.

3. Name the following:

[5]

- a. A structure enclosing the hair root.
- b. Outermost layer of the skin made up of flat dead cells.
- c. A muscular sheet separating the thoracic and abdominal cavity.
- d. The bone present in the upper arm of human body.
- e. Respiratory pigment present in blood.

4. Match the correct answers of Column I with Column II. Please rewrite the correct pairs:

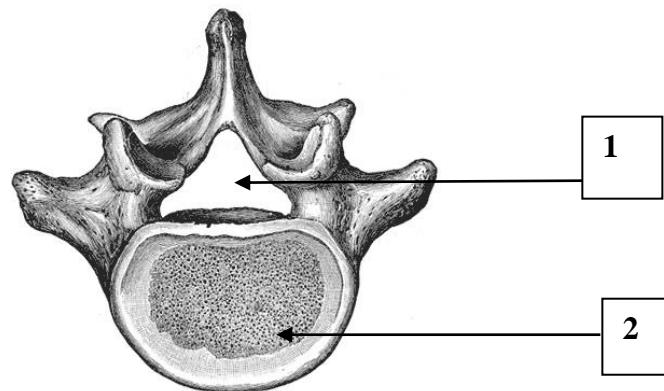
[5]

Column I	Column II
a. First vertebra of backbone	a. Protein
b. Acne	b. Lungs
c. Keratin	c. Axis
d. Tidal Volume	d. 1500ml
e. Alveoli	e. 500ml
	f. Atlas
	g. Sebaceous gland

5. Answer the following questions:

- a. Define Respiration. [1]
- b. Differentiate between Albinism and Leukoderma on the basis of their definition. [2]
- c. Mention the principal heat regulating center of the brain. Explain vasodilation. [2]
- d. Name the two membranes covering our lungs. [2]
- e. Draw a neat and well labelled diagram of a long bone. [3]

- 6. Answer the following questions:**
- a. Write a balanced equation of Aerobic respiration. [1]
  - b. Mention the technical term of the following: [2]
    - i. Breast Bone
    - ii. Knee Cap
  - c. Differentiate between ectothermal and endothermal animals. [2]
  - d. Mention the changes observed during Inspiration: [2]
    - i. Air pressure inside the lungs
    - ii. Rib cage
  - e. Answer the following questions by observing the diagram given below: [3]



- i. Identify the structure shown in the above diagram.
- ii. Label '1' and '2'.