



# BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL  
POST MID TERM EXAMINATION 2024-25  
CLASS-XI  
BIOLOGY (044)



Date: 06/01/2024

Max. Marks: 25

### General Instructions:

- This question paper consists of 12 questions in 3 sections.
- Section A consists of 3 objective type questions carrying 1 mark each.
- Section B consists of 5 Very Short questions carrying 02 marks each.
- Section C consists of 4 Short Answer type questions carrying 03 marks each.

### Section A

- The clumping of RBC can occur when two blood samples mixed which is because of : 1
    - Antibody-antibody interaction
    - Antigen-antibody reaction
    - Antigen-antigen interaction
    - All of these
  - Which one of the following is also known as antidiuretic hormone ? 1
    - Oxytocin
    - Vasopressin
    - Adrenaline
    - Calcitonin
- Question no. 3 consists of Assertion (A) and Reason (R). Answer this question by selecting the appropriate option given below: 1
- A Both A and R are true and R is the correct explanation of A.  
 B. Both A and R are true and R is not the correct explanation of A.  
 C. A is true but R is false.  
 D. A is False but R is true.
3. Assertion (A) : The narrowing of lumen of artery due to deposition of fats is called atherosclerosis.  
 Reason (R): Fat rich food is advisable in such case.

### Section B

- Explain heart sounds. 2
  - What is the importance of plasma proteins? 2
- Distinguish between 2
  - DCT and PCT
  - Flame cells and green glands
- Draw a standard ECG and explain the different segments in it. 2
- Terrestrial animals are generally either ureotelic or uricotelic, not ammonotelic, why ? 2
- Explain micturition. 2

OR

Explain Glomerular Filtration Rate (GFR).

### Section C

- What is the significance of juxta glomerular apparatus (JGA) in kidney function? 3
- Describe the role of liver, lungs and skin in excretion. 3
- What is meant by double circulation? What is its significance? 3
- Give reasons: 3
  - we consider blood as a connective tissue
  - Sino-atrial node is called the pacemaker of our heart.
  - We call our heart myogenic.

OR

iii) Fishes are cold-blooded animals.

\*\*\* Best of luck\*\*\*