

# Step Academy official

Model Town Grw PH: 03016652757

STUDENT NAME	
PAPER CODE	39292
TIME ALLOWED	40
Paper Date	11-02-2026



CLASS	New 1st Year (FSC/ICS)
SUBJECT	Biology
TOTAL MARKS	25
Paper Type	

## Q1. Choose the correct answer.

5X1=5

1. The terminal bronchioles end in?  
(A) Alveolar sacs      (B) Alveolar ducts      (C) Secondary bronchi      (D) Pleural cavities
2. How many amino acids are there in the  $\alpha$  and  $\beta$  chains of haemoglobin respectively?  
(A) 120 and 130      (B) 141 and 146      (C) 100 and 104      (D) 153 and 160
3. Where does the haem group bind in the haemoglobin molecule?  
(A) Inside the nucleus      (B) In the blood plasma      (C) In a pocket within each polypeptide chain      (D) Between two globin chain
4. What is the maximum amount of air that can be inhaled or exhaled during a respiratory cycle?  
(A) Tidal volume      (B) Vital capacity      (C) Inspiratory reserve volume      (D) Expiratory reserve volume
5. Which parts of the body are affected by Upper Respiratory-tract infections (URIs)?  
(A) Lungs and bronchi      (B) Nose, throat, sinuses, and larynx      (C) Esophagus and stomach      (D) Kidneys and bladder

## Q2. Write short answers of the following questions.

5X2=10

1. Trace the path of air through different parts of the respiratory system.
2. Besides respiration, what sensory functions does the nasal cavity perform?
3. What is the function of the epiglottis and how does it work?
4. How are the lungs divided and what is the difference between the right and left lungs?
5. List the symptoms of COPD.

## Q3. Write detailed answers of the following questions.

2X5=10

1. Describe the mechanism of inhalation and exhalation.
2. Describe causes, symptoms and treatment of emphysema.