

Step Academy official

Model Town Grw PH: 03016652757

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



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| 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 α and (β) 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.