

Step Academy official

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STUDENT NAME	
PAPER CODE	32456
TIME ALLOWED	40
Paper Date	03-02-2026



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

Q1. Choose the correct answer.

$$5 \times 1 = 5$$

1. The inner membrane of mitochondria is folded into:

2. The rate of facilitated diffusion depends on:

(A) Temperature (B) pH level (C) Number of transport proteins (D) Cell age

3. Which of the following is NOT involved in passive transport?

(A) Diffusion (B) Facilitated diffusion (C) Channel proteins (D) ATP usage

4. Which process requires invagination of the plasma membrane?

(A) Simple diffusion (B) Endocytosis (C) Osmosis (D) Facilitated diffusion

5. Which is a use of stem cells in medicine?

(A) Cooking **(B)** Fuel generation **(C)** Regenerative therapy **(D)** Photography

Q2. Write short answers of the following questions.

$$5 \times 2 = 10$$

1 . How do glycoproteins and glycolipids vary and what is their function?

2 . What are the two main types of transport proteins involved in facilitated diffusion?

3 . What type of membrane does osmosis occur through?

4 . What does the sodium-potassium pump do in nerve cells?

5 . How is the ER connected to other cellular structures?

Q3. Write detailed answers of the following questions.

$$2 \times 5 = 10$$

1 . Write details of the structure and the chemical composition of cell walls of eukaryotes and prokaryotes.

2. Why do we categorize endocytosis and exocytosis in active transport?