

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.

5X1=5

1. The inner membrane of mitochondria is folded into:

- (A) Cristae (B) Cisternae (C) Vesicles (D) Microvilli

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.

5X2=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.

2X5=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?