

Step Academy official

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STUDENT NAME	
PAPER CODE	39167
TIME ALLOWED	60
Paper Date	02-02-2026



CLASS	New 1st Year (FSC/ICS)
SUBJECT	Biology
TOTAL MARKS	40
Paper Type	

Q1. Choose the correct answer.

5X1=5

1. Which group of bacteria is known as a good source of antibiotics?
(A) Omnibacteria (B) Spirochaetes (C) Pseudomonads (D) Actinomycetes
2. Gram-positive bacteria have:
(A) Thin peptidoglycan and high lipid content (B) Thick peptidoglycan and low lipid content (C) No peptidoglycan (D) No lipid content at all
3. In bacteria that lack a cell wall, which structure forms the outermost layer?
(A) Cytoplasm (B) Capsule (C) Cell membrane (D) Nucleoid
4. Amphichous bacteria possess flagella:
(A) Only on one pole (B) On all sides (C) On both sides (D) Only internally
5. The enzyme responsible for converting HIV RNA into DNA is:
(A) RNA polymerase (B) Reverse transcriptase (C) DNA helicase (D) Integrase

Q2. Write short answers of the following questions.

5X2=10

1. What are mesosomes and their functions?
2. What components are found in bacterial cytoplasm?
3. Describe the ribosomes in bacteria.
4. Write about the role of endospores in bacterial survival.
5. Outline the steps involved in sporulation (endospore sporulation).

Q3. Write detailed answers of the following questions.

2X5=10

1. Explain different methods of movement in bacteria.
2. Explain the structure of a model bacteriophage and HIV.