

Step Academy official

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STUDENT NAME	
PAPER CODE	39312
TIME ALLOWED	40
Paper Date	09-02-2026



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

Q1. Choose the correct answer.

5X1=5

1. What is secondary growth?
(A) Formation of leaves (B) Elongation of roots (C) Increase in thickness (D) Decrease in height
2. What causes spring wood to appear lighter?
(A) Absence of xylem (B) Thicker cell walls (C) Wider vessels and high cambial activity (D) Less water absorption
3. Gibberellins promote which of the following?
(A) Seed dormancy (B) Leaf senescence (C) Bolting in rosette plants (D) Root growth inhibition
4. What do freshwater hydrophytes use to remove excess water?
(A) Salt glands (B) Stomata (C) Hydathodes and vacuoles (D) Leaf hairs
5. A plant with succulent leaves and saline tolerance is a:
(A) Mesophyte (B) Halophyte (C) Xerophyte (D) Hydrophyte

Q2. Write short answers of the following questions.

5X2=10

1. Why do guard cells lose turgor pressure at night?
2. Where are apical meristems located?
3. What is the main auxin found in plants?
4. Why do marine organisms sometimes not require osmoregulation?
5. Why is rapid chilling more harmful to plants than gradual cooling?

Q3. Write detailed answers of the following questions.

2X5=10

1. How does Pressure Flow Theory explain the movement of sugars through a plant?
2. Describe the mechanism of opening and closing of stomata?