

1903001103020003
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (THIRD SEMESTER)
BIOTECHNOLOGY LEVEL-2
PLANT MORPHOLOGY AND PHYSIOLOGY (BT:07)

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (THIRD SEMESTER)**
- b. Name of the Subject : **BIOTECHNOLOGY LEVEL-2
PLANT MORPHOLOGY AND PHYSIOLOGY (BT:07)**
- c. Subject Code No : **1903001103020003**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Define/Answer in short

8

- a) Define: Prop root with one example.
- b) Name the very tall Plant and write it's height.
- c) Define: Transpiration, write the types with their percentage.
- d) What is Florigen? write the role of florigen in plant.
- e) Define: Phytochrome with their Function.

Q.2 Attempt Any Two:

14

- a) Mention the flower with Accessory whorls and write the position of floral leaves on the thalamus.
- b) What is leaf? Write the main parts of leaf with their function.
- c) What is Osmosis? Write the types and importance of Osmosis.

Q.3 Explain in detail Any Two:

14

- a) Structure of stomata and the types according to the subsidiary cells surrounding the stomata.
- b) C3 cycle.
- c) The theories of Ascent of Sap.

Q.4 Attempt Any Two of the following:

14

- a) Write the role of Macro nutrients (seven) with their symptoms.
- b) Write the role of Cytokinin and Auxin in Plants.
- c) Define Pericarp and explain different layers of Pericarp.
