

1903001103020003
EXAMINATION NOVEMBER 2024
BACHELOR OF SCIENCE (BIO TECHNOLOGY)
(MASTER OF SCIENCE (BIO TECHNOLOGY) 5 YEAR
INTEGRATED COURSE) (THIRD SEMESTER)
PLANT MORPHOLOGY AND PHYSIOLOGY- LEVEL 2

[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 (BIO TECHNOLOGY) (MASTER OF SCIENCE (BIO TECHNOLOGY) 5 YEAR INTEGRATED COURSE) (THIRD SEMESTER)**
- b. Name of the Subject : **PLANT MORPHOLOGY AND PHYSIOLOGY- LEVEL 2**
- 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 Any Four:

8

- (a) Define: Pneumatophore, write its function.
- (b) Name the rich source of cytokinin & write first natural cytokinin.
- (c) Define: Leaf epinasty, write the name of hormone responsible for leaf epinasty.
- (d) Write the types of osmosis.
- (e) Define: Florigen, write the role of florigen in plant.

Q.2 Attempt Any Two:

14

- (a) Write the types of seed germination with their internal and external conditions.
- (b) Mention the two reproductive whorls of flower and write the flower condition on the basis of position of floral leaves on thalamus.
- (c) Structure of stomata and the types according to the subsidiary cells surrounding the stomata.

Q.3 Explain in detail Any Two:

14

- (a) Types of Photophosphorylation.
- (b) The theories of Ascent of Sap.
- (c) CAM cycle

Q.4 Attempt Any Two of the following:

14

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