

No. of Printed Pages : 1

Sl. No.

**21BOT3C9L**

**M.Sc. III Semester Degree Examination, April/May - 2023**

**BOTANY**

**Plant Physiology**

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** of the following questions with Question No. **1** is **compulsory**.

1. What are growth regulators ? Write on their types, structure, mode of action, functions and physiological effects. **14**
2. Discuss the phytochromes role in agriculture and horticulture. **14**
3. Describe the C3 and C4 photosynthesis pathway. **14**
4. Explain the molecular mechanism of photomorphogenic receptors. Add a note on senescence. **14**
5. Write on biofic and abiofic stresses and their effects. **14**
6. (a) Explain phytochromes **5**  
(b) Jasmonic acid **5**  
(c) Photorespiration **4**
7. (a) Write on circadian rhythms **5**  
(b) Vernalization **5**  
(c) Polyamines **4**
8. (a) Explain biological effects of plant growth hormones **5**  
(b) Biosynthesis of glycolate **5**  
(c) Metal toxicity **4**

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