

**M.Sc. III Semester Degree Examination, April/May - 2024****BOTANY****DSC - 9 : Plant Physiology****(NEP)**

Time : 3 Hours

Maximum Marks : 70

Note : Answer **any five** of the following questions with question **No. 1 (Q.1) Compulsory**.

1. Explain structure, discovery, biosynthesis, mode of action and physiological effects of any one plant growth retardants. **14**
2. Short note on the brassinosteroid, polyamine, salicylic acid. **14**
3. Explain composition and characterization of PS I and PS II. **14**
4. Give a detailed account on Circadian rhythms in plants. **14**
5. Explain plant defence mechanism against abiotic stress. **14**
6. Give a short note on the following :
 - (a) Auxin **5**
 - (b) Gibberellin **5**
 - (c) Cytokinin **4**
7. Write a short note on the following :
 - (a) Hormone mutants or phototropin **5**
 - (b) Phytochromes **5**
 - (c) Chryptochromes **4**
8. Give a short note on the following :
 - (a) CAM pathway **5**
 - (b) Seed germination and dormancy **5**
 - (c) Photo inhibition **4**

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