

Government Degree College, Ganderbal.

Botany Internal Assessment, B.Sc 4<sup>th</sup> Semester , June 2020

Email id for assignment submission: [4thsembotany2020@gmail.com](mailto:4thsembotany2020@gmail.com)

**Note:** Candidates are required to attempt any **four** questions (*Each question carries 15 marks*).  
**Read the below mentioned instructions carefully before working on the assignment.**

**Q1. A)** Explain the structure of Stomatal apparatus. Also draw a well labelled diagram?

**B)** Explain the process of Phloem loading?

**C)** Define Macronutrients. Explain the specific roles and deficiency symptoms of macronutrients?

**(5×3= 15)**

**Q2. A)** Define photophosphorylation. Discuss in detail about non-cyclic photophosphorylation?

**B)** Explain in detail the mechanism of CAM pathway of carbon fixation in plants?

**C)** Define respiration. Differentiate between aerobic and anaerobic respiration?

**(5×3= 15)**

**Q3. A)** Write a short note on enzymes and also explain the main characteristics exhibited by them?

**B)** Discuss the two important theories of enzyme action?

**C)** Discuss in detail the biological nitrogen fixation in plants?

**(5×3= 15)**

**Q4. A)** Differentiate between C<sub>3</sub> and C<sub>4</sub> plants?

**B)** With the help of the flowchart describe the different steps of EMP pathway?

**C)** Discuss in detail the mechanism of enzyme inhibition?

**(5×3= 15)**

**Q5. A)** Define plant growth. Enlist the different factors affecting the growth in plants?

**B)** Define Plant growth regulators. Add a detailed note on their classification?

**C)** Explain the role of auxins in plants?

**(5×3= 15)**

## **Instructions:**

1. Write following details clearly on the top of your assignment:

**Name**

**Semester**

**Batch**

**Contact No:**

**Email. Id**

**Class Roll No.**

**Registration no.**

**Category: Annual or Back log:**

2. Use ruled pages to write your assignments. Only hand written assignments will be accepted. Properly label the questions in accordance with the question paper and do proper page numbering.

3. Once you are done with all the questions put your signature at the last page of your assignment.

4. Scan it properly in a pdf format (You can also use CamScanner).

5. Send it on the email id: [4thsembotany2020@gmail.com](mailto:4thsembotany2020@gmail.com)

6. No copy paste of the content will be accepted. Any assignments found similar among students will be rejected.

**7. Once you submit check your mail frequently as deficiencies, if any, will be communicated to you via the email id provided by you.**

**8. The last date for assignment submission is 26-06-20. No assignment will be accepted after the due date.**