

# Government Degree College, Pattan

## B.Sc 4<sup>th</sup> Semester

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

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

**Q1.** A) Explain Pressure flow model. Also draw a well labeled diagram.

B.) Explain the process of Phloem loading?

C. Define passive transport across membranes and its types.

(3×5= 15)

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

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

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

(3×5= 15)

**Q3.** A) Discuss the two important theories of enzyme action.

B) Discuss in detail the biological nitrogen fixation in plant

C) Explain the process of Nitrate Assimilation in plants

(3 ×5 = 15)

**Q4.**

A. Define Plant growth regulators. Also explain the physiological role of gibberellins.

B. Explain the physiological role and discovery of Abiscisic acid (ABA) in plants?

C. What is Photoperiodism. What are LDPs, SDPs and day neutral plants?

(3×5= 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.**

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.

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

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

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

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

