

**B.Sc. 4th semester General examination 2021**  
**DC 10.A4, Paper – 7 (Plant Physiology and metabolism )**  
**Department of Botany**  
**Gour Mahavidyalaya**  
**(THEORY)**

Full Marks -25.

Time – 2 hours

1. Answer the following questions :- 10X2=20
- I. Briefly describe C<sub>3</sub> (Calvin) cycle. How does this differ from C<sub>4</sub> cycle?
  - II. Briefly describe the biological nitrogen fixation procedure?
- 2 Write a short note on :- 2.5x2=5
- I. Hill reaction
  - ii. SDP and LDP

**B.Sc. 4th semester General examination 2021**  
**DC 10.A4, Paper – 8 (Plant Physiology and metabolism )**  
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**(Practical )**

Full Marks -15.

Time – 1 hour

1. Answer the following question :- 15X1=15
- I. Measurement of oxygen uptake by respiring tissue (per gram/ hour) by germinating seeds (write down the Requirement, principle , procedure and calculating formula for the above mentioned experiment with proper diagram of the experiment setup) .

**(NB. All are requested to submit the soft copy of the answer scripts in a single marga PDF file to [botanygourmahavidyalaya@gmail.com](mailto:botanygourmahavidyalaya@gmail.com) with in 30 minute after completion of the examination)**