



‘समानो मन्त्रः समितिः समानी’

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 6th Semester Examination, 2022

**CC13-BOTANY (PRACTICAL)**

**PLANT METABOLISM**

Time Allotted: 2 Hours

Full Marks: 20

*The figures in the margin indicate full marks.*

1. Give a demonstration of Hill’s reaction. 3
2. Determine the rate of respiration of the supplied sample. 7  
(Experiment = 2, Principle = 2, Results and Calculations = 3)
3. Perform the chemical separation of photosynthetic pigments (sample to be provided) by paper chromatography. Calculate the  $R_f$  value for each separated pigment. 2+3

**OR**

- Determine the effect of light intensity or carbon di-oxide on photosynthesis. 5  
(Experiment = 2, Results and Calculations = 3)
4. Submission of laboratory note book 2
  5. Viva-voce 3

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