

# GURUDAS COLLEGE

B. Sc. SEMESTER VI (Honours) Examination, 2021

Online Practical Examination, 2021

Subject: BOTA

Subject Category: Honours

CORE COURSE - 14

Course: - BOT-A-CC-14-P

Course Name: Plant Metabolism

Date of Examination: 04/08/2021, 12noon

Time: 1 Hour 30 minutes

FM: 30

Answer *any three* of the following

10X3

1. Write the principles and procedure for paper chromatography. 5+5
2. Write down the procedure of total chlorophyll content estimation from different chronologically aged leaves by Arnon method. Give a flow chart for the separation of major plant pigments by using solvents. 6+4
3. Why is *Hydrilla* sp used in the photosynthesis experiment? Mention the requirements and procedure for the said experiment. 2+3+5
4. Why germinating seeds are preferred for the experiment of aerobic respiration? Mention the requirements and procedure for this experiment. 2+3+5
5. Define R.Q. Mention the nature of R.Q.in starchy, proteinaceous and amino acids substances. Write down the requirements and principles for the determination of R.Q. in germinating seeds 2+2+3+3

### **Instructions for submission of answer scripts**

1. Write the front page/top sheet as per instruction.
2. Scan the pages in sequence and make a single PDF file.
3. Rename file as per instruction.
4. Email the PDF file within the stipulated time to the following

#### **Email ID:**

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