

# GURUDAS COLLEGE

**B. Sc. SEMESTER V (Honours) Odd Semester Examination, 2021**

**Online Practical Examination**

**Subject: BOTA**

**Subject Category: Honours**

**Course: BOT-A-DSE-B-5-5-P**

**Course Name: PLANT BIOTECHNOLOGY**

**Date of Examination: 22<sup>nd</sup> Jan, 2022**

All questions carry equal marks

**Time: 1 hour & 30 minutes**

**FM: 30**

- 1) a) How 1 liter of MS medium is prepared in the laboratory? Mention the ingredients and their quantities.  
  
b) Illustrate with the help of a flow diagram the procedure of sterilization of plant materials in the laboratory. 5+5
  
- 2) a) Draw the flow diagram of the method of “Indirect Somatic Embryogenesis” used in plant tissue culture laboratories.  
  
b) Give the schematic representation of the pollen culture and development of haploid plant from pollen culture in plant tissue culture laboratories. 5+5
  
- 3) Write down the working principles and uses of ‘Incubator’ and ‘Hot air oven’ which are used in plant tissue culture laboratories. 5+5

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

1. Write the front page/top sheet as per instruction. Give page numbers to each page.
2. Write your CU Roll number in eachpage.
3. Scan the pages in sequence and make a single PDFfile.
4. Rename file as per instruction.
5. Email the PDF file within the stipulated time the following email addresses:
  1. **gcdbot2020@gmail.com**
  2. **gchonsgen@gmail.com**
  3. **botasem2gdc@gmail.com**