

**B.Sc. SEMESTER V EXAMINATION, 2020 (CBCS)**

**BOTANY – GENERAL**

**PRACTICAL**

**DSE A – PHYTOCHEMISTRY AND MEDICINAL BOTANY**

**Full Marks – 30**

**Time: 1 Hour 30 Minutes**

**INSTRUCTIONS FOR PRACTICAL EXAMINATIONS**

1. The examination and answer script submission will be only by online mode. No offline submissions will be accepted.
2. Write the answers on A4 sheets on one side only. Number your pages.
3. Use black pen to write the examination.
4. **Answers may be written in English or Bengali.**
5. Write the following on the first page of your answer script:

SARSUNA COLLEGE (563)

B.Sc. SEMESTER V EXAMINATION, 2020 (CBCS)

BOTANY – GENERAL (PRACTICAL)

DISCIPLINE SPECIFIC ELECTIVE A (DSE A) – PHYTOCHEMISTRY  
AND MEDICINAL BOTANY

NAME:

UNIVERSITY ROLL NO.:

REGISTRATION NO.:

PHONE NO.:

6. If available, attach a scanned copy of your Admit Card with your answer script.
7. After completing your answers, scan all the pages and save as a single PDF file and name it by your paper and University Roll No. e.g. BOTG- DSE-A (P)-183563-.....
8. Upload your PDF file in the Google form link <https://forms.gle/oyK5DnWSTCX8JuUL6> given in Google Classroom within the given time limit.
9. You will be given 30 minutes to scan and upload the answer scripts. Answer scripts sent after the stipulated time limit will not be accepted.

**Answer the following questions:**

**10 × 3=30**

1. a) Define normal and molal solutions. How will you prepare a normal solution of  $\text{Na}_2\text{CO}_3$ ? 2+2

b) Write the working principle and procedure of use of an autoclave. 2+4

or

b) Mention the working principle and uses of a clinical centrifuge. 2+4

2. a) What happens when a sugar solution is heated with Fehling's, Benedict's and Barfoed's Solutions and why? What kind of sugars give these reactions? 2

b) Explain the Biuret test for proteins with reason. What happens when a protein solution is boiled with 0.1% ninhydrin solution and why? 2+2

c) Describe one chemical test for tannin and one for alkaloid. 2+2

3. Write the scientific names of the following medicinal plant specimens A, B, C, D and E and mention the parts used. 2 × 5 =10



**SPECIMEN A**



**SPECIMEN B**



**SPECIMEN C**



**SPECIMEN D**



**SPECIMEN E**