

GURUDAS COLLEGE

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

Under CBCS

Online Practical Examination, 2021

Subject: BOTA

Subject Category: Honours

CORE COURSE-9

Course: BOT-A-CC-4-9-P

Course Name: Economic Botany Practical

Date of Examination: 11th Aug, 2021 Time: 12 noon - 1:30pm

Time: 1hr 30min

FM: 30

Answer **any three** questions from the followings:

Q1). Write down the requirements, procedure, observation and result for the detection of sucrose from **cane-juice** microchemical test studied by you. Mention the scientific name with family of **Sugarcane plant**.

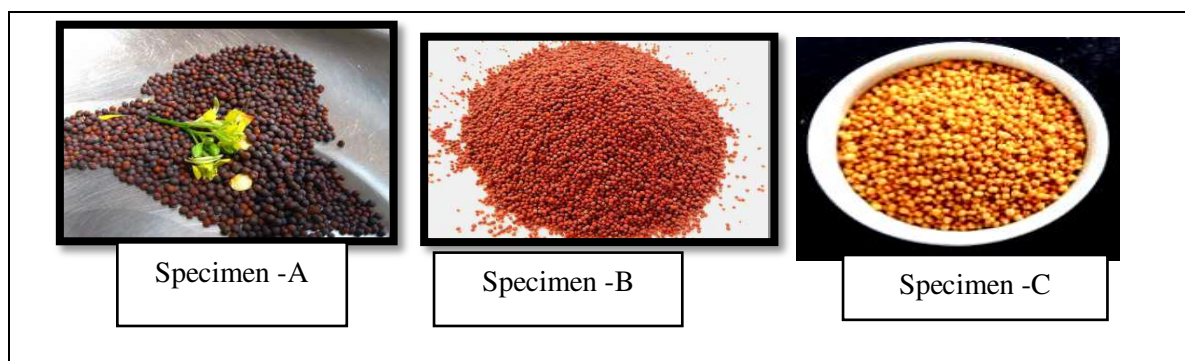
(2+3+2+1)+(1+1)

Q2a). Write down the procedure, observation and result for the detection of tannin using 5 % FeCl₃ solution from Tea leaf. Write one precaution for the test of lignin from 'T.S. of stem of Jute' using **Phloroglucinol-HCL (Wiesner) staining**. (2+1+1) +1

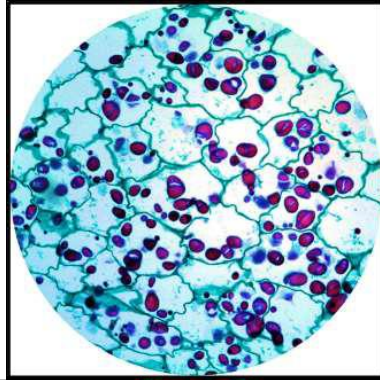
Q2b). Write down the procedure, observation and result of the micro-chemical test for protein using **Ninhydrin solution**. What is the reason of formation of the yellow precipitate in the '**Modified Milion's Test**' for the detection of protein? (2+1+1) +1

Q3a). Identify the seed Specimens **A, B** and **C** (Generic name = ½ and specific epithet = ½).

3



Q3b). Mention the forms, size, hilum and striation of starch grains in given T.S. of potato tuber. 3+1+3

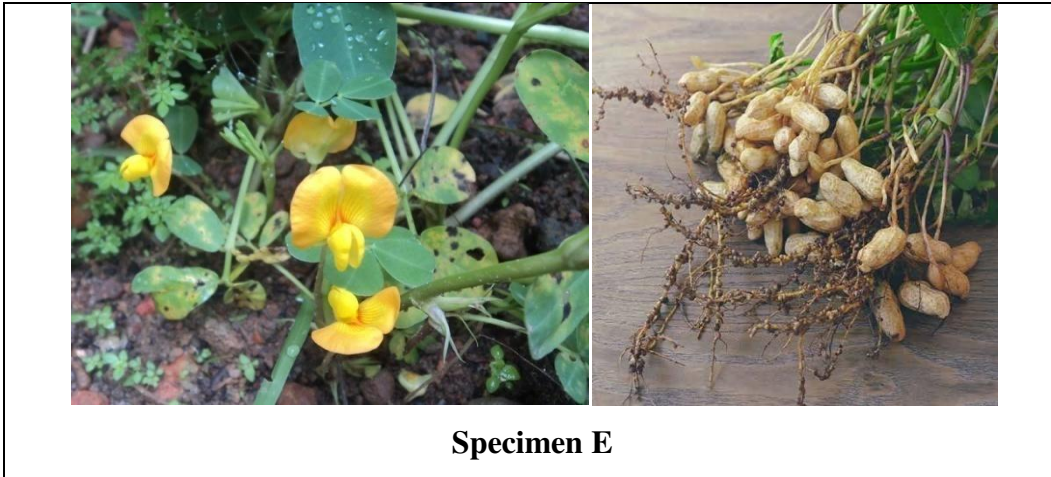


Q4a). Identify the following drug yielding plant Specimen **D** with reasons. Write the systematic position of the specimen. [Identification =1, Reasons = 3, Systematic position=1]
1+3+1



Specimen D

Q4b). Identify the legume plant Specimen **E**. Describe the habit structure and the systematic position of the specimen. [Identification=1, Habit=3, Systematic position=1] 1+3+1



Q5a). Write down the procedure, observation and result for microchemical test of **wheat** starch grain using **Iodine solution** as reagent. 2+2+1

Q5b). Write down the scientific name, family and useful part of Specimen 'F'. Write the requirements for test of lignin from 'T.S. of stem of Jute' using **Mäule staining**. (1+1+1)+2



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 IDs:

1. gchonsgen@gmail.com
2. gdcexamhons@gmail.com
3. botasem4gdc@gmail.com