GURUDAS COLLEGE

B. Sc. SEMESTER V (Honours) Examination, 2021
Online Practical Examination
Subject: BOTA
Subject Category: Honours
Course: BOT-A-CC-5-12-P
Course Name: BIOCHEMISTRY

Date of Examination: 20th January, 2022

Full Marks – 30 Time – 1hour and 30 minutes

All questions carry equal marks

Answer the following questions:

1. (i) Illustrate the reason behind the formation of red precipitate in Barfoed's test? Explain the observation in Moore's test. Elucidate the Benedict's test? 2+2+2

(ii) Write down the confirmatory test for detection of Cysteine? Write down the observation and inference of the Ninhydrin test. 2+2

2. Write down the procedure for the Catalase assay experiment. Why does the burette reading for the Experimental set up is expected to be less than the burette reading of the Enzyme Blank set up in this experiment? Write down the composition of the Benedict Quantitative Reagent. Calculate the amount of NAOH required to make 225ml of N/5 NAOH solution [Mol. weight of NAOH is 40]. 4+2+2+2

3. (i) Write down the requirements for the protein estimation by Lowry's method experiment. Why does the colour intensity of the reaction mixture, which is formed after incubation, increases with the increase of protein concentration in the reaction mixture in this experiment? Name the indicator used in the 'Estimation of total titrable acidity of lemon' experiment. 4+2+2

(ii) Explain the test for detection of Calcium in plant ash. 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:

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