

TDC (CBCS) Odd Semester Practical Exam, 2023

CHEMISTRY

(Practical)5th Semester

COURSE NO. CHMDSE - 502L

(Analytical Methods in Chemistry)

Full Marks : 30

Pass Marks : 12

Time : 6 hours

The figures in the margin indicate full marks for the questions

- | | |
|--|------------|
| 1. Perform two experiments allotted to you and report the results accordingly. | 10.5x 2=21 |
| 2. Attendance | 4 |
| 4. Regularity in maintenance of Lab Notebook. | 2 |
| 5. Vive Voce. | 3 |

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Instruction to the Examiners:

1. Two of the following experiments should be allotted to the candidates by drawing lots:

- i) Determine the pH of the supplied samples
 - (a) 3 Different fruit juices
 - (b) 3 different shampoos
 - (c) 3 different soaps
- ii) Analyse the supplied soil sample and determine
 - (a) pH of the soil
 - (b) Total soluble salt
 - (c) Estimate calcium

iii) Separate the metal ions from their binary mixture (Cu²⁺ and Cd²⁺ mixture or Co²⁺ and Ni²⁺ mixture may be given)

iv) Separate a mixture of sudan yellow and sudan red by TLC technique and report their R_f values.

v) Separate the mixture of Fe³⁺, Al³⁺ and Cr³⁺ ions by paper chromatography. Report their R_f value.

vi) Determine the dissolved oxygen in the supplied water sample.

- 2. Viva Voce 3
- 3. Regularity in maintenance of lab note book. 2
- 4. Attendance 4
