TDC (CBCS) Odd Semester Practical Exam, 2023

CHEMISTRY

(Practical)

5th Semester

COURSE NO. CHMDSE - 504L

(Green Chemistry)

Full Marks : 30
Pass Marks : 12

Time : 6 hours

The figures in the margin indicate full marks for the questions

Part-I

1. Perform the experiment allotted to you. Report the yield/ plot the graph wherever applicable. 10

Part-I

2. Perform one experiment allotted to you and report the yield. 11

2. Attendance 4

4. Regularity in maintenance of Lab Notebook. 2

5. Vive Voce. 3

★★★

2023/TDC/ODD/CHMDSE-504L/037

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Instruction to the Examiners:

Each candidate may be assigned to perform two experiments taking one from each part.

Part-I

1. (a) Perform the clock reaction using vitamin C tablets, tincture of iodine H_2O_2 and starch at variable concentration. Plot of rate of reaction vs concentration of solution.

Or

(b) Perform the preparation of biodiesel from vegetable oil following a standard method. Report tentative yield.

Part-II

2. Perform any one of the reaction and report the yield. 11

   a) Reaction between furan and maleic acid in water at room temperature.

   b) Extraction of D-limonene from orange peel using liquid CO_2 prepared from dry ice.

   c) Synthesize any azomethine as directed by teacher using mechanochemical solvent free method. Report the yield.

   d) Carry out solvent free, microwave assisted one pot synthesis of phothalocyanine copper (u) complex. Report the yield.

2. Viva Voce 3

3. Regularity in maintenance of lab note book. 2

4. Attendance 4

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