## U.G. 2nd Semester Examination - 2020 CHEMISTRY

[HONOURS]

Course Code : CEMH-CC-P-04
(Organic)
[PRACTICAL]

Full Marks: 20 Time: 2 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

## **GROUP-A**

Answer any two of the following:

 $5 \times 2 = 10$ 

- Outline the synthetic procedure of m-dinitrobenzene in the laboratory and mention the required reagents for this conversion. Write the overall chemical reaction of this transformation.
- Discuss the laboratory procedure of hydrolysis of benzamide. What product will you get in this reaction?Write the chemical reaction. 4+1
- 3. Briefly outline the synthetic procedure of acetanilide in the laboratory and mention the required reagents for this conversion. Write the overall chemical reaction of this transformation.

[Turn Over]

4. Briefly discuss the green approach for the synthesis of benzilic acid in the laboratory and mention the required reagents for this synthesis. Write the overall chemical reaction of this transformation.

## **GROUP-B**

Answer any **five** of the following:  $2 \times 5 = 10$ 

- What are the differences between sharp melting point and indefinite melting point?
- Why determination of melting point is important for a given solid sample?2
- 3. Why recrystallisation is most frequent operation in practical organic chemistry? 2
- 4. Describe the method of recrystallisation of an unknown organic compound mostly soluble in water.
- 5. 5 gm of ethylacetate on hydrolysis produces 3 gm of acetic acid. Calculate the percentage (%) of the yield of acetic acid.
- 6. Discuss the green approach in synthetic organic chemistry.
- 7. Mention any two solid brominating reagents with correct structure.

\_\_\_\_\_

276/1/Chem/PR

(2)