U.G. 2nd Semester Examination - 2021 CHEMISTRY

[HONOURS]

Course Code : CHEM-H-CC-P-04
[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.

(Organic)

GROUP-A

Answer any **two** of the following:

 $5 \times 2 = 10$

- 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.
- 2. 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.
- 3. 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.

[Turn Over]

Discuss the laboratory procedure of hydrolysis of benzamide. What product will you get in this reaction?
 Write the chemical reaction.

GROUP-B

	GKOUI-D	
Ansv	wer any five of the following:	2×5=10
1.	Discuss the green approach in synthetic chemistry.	c organic
2.	Describe the method of recrystallisat unknown organic compound mostly solubl	
3.	Why determination of melting point is impa given solid sample?	portant for 2
4.	Mention any two solid brominating reas	gents with
5.	What are the differences between sharp me and indefinite melting point?	lting point 2
6.	Why recrystallisation is most frequent oppractical organic chemistry?	peration in 2
7.	5 gm of ethylacetate on hydrolysis produce acetic acid. Calculate the percentage (%) of acetic acid.	•

284/Chem/PR

(2)