

## PANDU COLLEGE CHEMISTRY DEPARTMENT

PANDU, GUWAHATI-78101, ASSAM

Dr.Manoj Sarma, Associate Professor.

Dr. Gitali Baruah, Associate Professor, HOD, Chemistry Department.

Dr.RimkiBhattacharjya, Associate Professor.

Dr.Biswajita Baruah, Assistant Professor. **Notice** 

This is for information of all the 6<sup>th</sup> Semester students (Chemistry Honors) an add-on certificate course will be conducted by the Department of Chemistry from 1<sup>st</sup> February 2024 on Green Chemistry Practices. All the students are requested to pay Rs 50 as a fee of Add-on Course.

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Principal
PANDU COLLEGE, PANDU
Guwahati-12, Assam

	Green chemistry practices.  Date-17/02/2024.
Signature	of Gracher - : Gréali Barnol.
Signature	of students - (1) Ankunjyoti Thakunia Dhanjit Das   Braushik Das
	3 bipankan kakati      Leena Nathi      Sehal Chakraborty
ECD/Chemistry	(2) Infan Ahmed
Associate Professor	(16) Kakan: Nath (1) Métali Nath
Assistant Baylong	Course

Green chinist Dale-19/02/2024 Signature of the heachen -Signature of Students - O Seema Bona (iii) Infam Ahmed. Phristi Sukar A Parismita Cooungalory. Mooret Kuman James lay Brownich W) Kakar: Nath Chanithi Sankar John Charlesbarling (1x) Kariobi Bezbarcuah (x) Parismila Basuma Tary (XI) Ankuriyoti Thakuria Diganker Ketti and timeda

Question Paper (MM=30)  Add-on course: Green Practices	
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Give one example of the followings: (i) Green solvent (ii) Auxillary substance (Catalytic reagent (iv) Solvent free reaction (v) Ionic liquid (vi) Phase transfer catalyst (vii) Microwave assisted reaction 1x7=7	iii)
Your answer	
Fill in the blanks with appropriate words	
(i) Rearrangement reactions are % atom economical.	
(ii) is an example of a green solvent.	
(iii) Sonication uses energy.	
(iv) is a non-renewable feedstock.	
(v) VOC stands for 1x5=5	
Your answer	
Write twelve principles of the green chemistry. Briefly explain any two with suexample.	itable
5+3=8	
our answer	
ist any four limitations/obstacles in the pursuit of green chemistry.	
our answer	
A desirable green solvent should be	
) Costly	
) Toxic	
) Readily available	
) Synthetic	

## **Green Chemistry practices**

Unit 1. 15 lectures

Design an ideal green experiment in a chemistry laboratory, different types of green solvents and its uses in sample preparation in analytical chemistry. kolakhar, ionic solvents, advantages of green solvents, Kolakhar and its spectroscopic investigation.

Green catalyst.Rice straw ash and its catalytic activity. Spectroscopic analysis of Rice straw ash.

## Unit 2.

Labwork 15 lectures

- Preparation of kolakhar and its spectroscopic analysis.
- Reactions using ionic solvents as green solvent.
- Preparation of rice straw ash and spectroscopic analysis.

Gitali Barnah HOD, chemistry department.