



Aggarwal College Ballabgarh

LESSON PLAN
18 WEEKS (JULY-NOV)-2024

Name of Faculty: Dr. Archana Chauhan
Designation/ Department: Assistant Professor Chemistry

CLASS: BSc NM		SEMESTER: 5th	SECTION: A
SUBJECT: Organic Chemistry			
WEEK	DATE	TOPIC TO BE COVERED	
1	1-08-2024		
	2-08-2024	Principle of nuclear magnetic resonance	
	3-08-2024	PMR spectrum, number of signals	
	4-08-2024	S. U. N. D. A. Y.	
	5-08-2024		
	6-08-2024		
	7-08-2024	H.O.L.I. D. A. Y.	
2	8-08-2024		
	9-08-2024	Peak areas, equivalent and nonequivalent protons	
	10-08-2024	Positions of signals and chemical shift	
	11-08-2024	S. U. N. D. A. Y.	
	12-08-2024		
	13-08-2024		
	14-08-2024		
3	15-08-2024	H.O.L.I. D. A. Y.	
	16-08-2024	Shielding and deshielding of protons	

	17-08-2024	Proton counting, splitting of signals and coupling constants
	18-08-2024	S. U. N. D. A. Y.
	19-08-2024	H.O.L.I. D. A. Y.
	20-08-2024	
	21-08-2024	
4	22-08-2024	
	23-08-2024	Magnetic equivalence of protons.
	24-08-2024	Test-01
	25-08-2024	S. U. N. D. A. Y.
	26-08-2024	HOLIDAY
	27-08-2024	
	28-08-2024	
5	29-08-2024	
	30-08-2024	Discuss ion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide
	31-08-2024	isopropyl bromide, 1,1-dibromoethane, 1,1,2-tribromoethane
	1-09-2024	S. U. N. D. A. Y.
	2-09-2024	
	3-09-2024	
	4-09-2024	
6	5-09-2024	
	6-09-2024	ethanol, acetaldehyde, ethyl acetate, toluene
	7-09-2024	benzaldehyde and acetophenone
	8-09-2024	S. U. N. D. A. Y.

	9-09-2024	
	10-09-2024	
	11-09-2024	
7	12-09-2024	
	13-09-2024	Simple problems on PMR spectroscopy for structure determination of organic compounds
	14-09-2024	Simple problems on PMR spectroscopy for structure determination of organic compounds
	15-09-2024	S. U. N. D. A. Y.
	16-09-2024	
	17-09-2024	
	18-09-2024	
8	19-09-2024	
	20-09-2024	Assignment-01
	21-09-2024	Classification and nomenclature. Monosaccharides
	22-09-2024	S. U. N. D. A. Y.
	23-09-2024	H.O.L.I. D. A. Y.
	24-09-2024	
	25-09-2024	
9	26-09-2024	
	27-09-2024	Mechanism of osazone formation
	28-09-2024	Interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses.
	29-09-2024	S. U. N. D. A. Y.
	30-09-2024	
	1-10-2024	

	2-10-2024	HOLIDAY
10	3-10-2024	
	4-10-2024	HOLIDAY
	5-10-2024	Interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses.
	6-10-2024	S. U. N. D. A. Y.
	7-10-2024	
	8-10-2024	
	9-10-2024	
11	10-10-2024	
	11-10-2024	Configuration of monosaccharides, Erythro and threo diastereomers.
	12-10-2024	HOLIDAY
	13-10-2024	S. U. N. D. A. Y.
	14-10-2024	
	15-10-2024	
	16-10-2024	
12	17-10-2024	HOLIDAY
	18-10-2024	Conversion of glucose into mannose. Formation of glycosides, ethers and esters.
	19-10-2024	Determination of ring size of glucose and fructose. Open chain and cyclic structure of D(+)-glucose & D(-) fructose
	20-10-2024	S. U. N. D. A. Y.
	21-10-2024	
	22-10-2024	
	23-10-2024	
13	24-10-2024	
	25-10-2024	Mechanism of mutarotation, Structures of ribose and deoxyribose.

	26-10-2024	An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.
	27-10-2024	S. U. N. D. A. Y.
	28-10-2024	DIWALI BREAK
	29-10-2024	DIWALI BREAK
	30-10-2024	DIWALI BREAK
14	31-10-2024	DIWALI BREAK
	1-11-2024	DIWALI BREAK
	2-11-2024	DIWALI BREAK
	3-11-2024	S. U. N. D. A. Y.
	4-11-2024	
	5-11-2024	
	6-11-2024	
15	7-11-2024	
	8-11-2024	An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.
	9-11-2024	Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions.
	10-11-2024	ZONAL YOUTH FESTIVAL
	11-11-2024	ZONAL YOUTH FESTIVAL
	12-11-2024	ZONAL YOUTH FESTIVAL
	13-11-2024	
16	14-11-2024	
	15-11-2024	H.O.L.I.D.A.Y.
	16-11-2024	Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions.
	17-11-2024	S. U. N. D. A. Y.
	18-11-2024	

	19-11-2024	
	20-11-2024	
17	21-11-2024	
	22-11-2024	Organolithium compounds: formation and chemical reactions.
	23-11-2024	Organolithium compounds: formation and chemical reactions.
	24-11-2024	S. U. N. D. A. Y.
	25-11-2024	
	26-11-2024	
	27-11-2024	
18	28-11-2024	
	29-11-2024	Test-02
	30-11-2024	Revision
	1-12-2024	S. U. N. D. A. Y.
	2-12-2024	
	3-12-2024	
	4-12-2024	
	5-12-2024	



Signature