

# SARASWATI MAHILA MAHAVIDYALAYA, PALWAL

## LESSON PLAN

Class: BA/B.Sc. (N.M. & C.S.)

Semester: 5th

Paper: Groups and Rings

Session: 2020-21

Lectures	Topic
	UNIT-1:
16	Ch.-①: Definition of a group with example and simple properties of a groups, Subgroups and Subgroup criteria, Generation of groups, Cosets, left and right cosets, Index of a subgroup.
	Ch.-②: Lagrange's theorem and its consequences, Normal subgroups. Quotient groups.
2.	Class Test & Discussion of Problems
	<u>UNIT-2:</u>
18	③ Homomorphisms, isomorphisms, and inner automorphisms of a group
	④ Automorphisms of cyclic groups.

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## LESSON PLAN

Class :

Semester :

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Lectures	Topic
	Even and odd permutations.
	(6) Cayley's theorem, Centre of a group and derived group of a group.
1	Assignment & Discussion of doubts
	<u>Unit-3</u>
18	<u>Ch.-7</u> : Introduction to rings, subrings, integral domains and fields.
	Quotient Rings
2	Class Test and Discussion of Problems
	<u>UNIT-4</u> :
22	<u>Ch.-8</u> : Euclidean Rings
	<u>Ch.-9</u> : Polynomial Rings
1	Assignment
10	Revision