

SARASWATI MAHILA MAHAVIDYALAYA, PALWAL

LESSON PLAN

Class : BCA Ist

Semester : Ist

Paper : Mathematics

Session : 2020-2021

Lectures	Topic
	<u>UNIT-I</u>
Lect.- 1 to 22	Sets, Subsets, Equal sets, Universal sets, finite and infinite sets, Operation on sets, Union, Intersection and compliments of sets, Cartesian Product, Cardinality of sets, Simple Applications, Determinants, Minors and Co-factors, Properties of co-factors, solving a system of linear equations and MATRICES.
Lect-23	Doubt
Lect.- 24	Revision
	<u>UNIT-II</u>
Lect-25 to 45	Relations and Functions: Properties of Relations, Equivalence Relations, Partial Order Relation Functions: Domain and Range, Onto, Into and One to one Functions, Composite and Inverse functions, Limits and

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	Types of discontinuities.
Lect-46	Doubt
Lect-47	Revision
Lect-48	Test
	<u>UNIT-III</u>
Lect-49 to 69	Differentiation : Derivative of a function, Derivatives of sum, Differences, Product & Quotient of functions, Derivatives of Polynomial, trigonometric, exponential, logarithmic, inverse and implicit functions, diff. by substitution.
Lect-70 to 71	Doubt + Revision
Lect-72	Test
	<u>UNIT-IV</u>
Lect-73 to 88	Integration, indefinite integrals, Method of integration by substitution
	By parts, Partial Functions, Integration
Lect-89-	Doubt
Lect-90	Test