**SARASWATI MAHILA MAHAVIDYALAYA,PALWAL**

SESSION:**2021-22**

**LESSON PLAN** Sem :Even

Name of faculty : Ms. Seema Chaudhary Class : B.Com-I

Designation : Assistant Professor in Maths Subject : Mathematics

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| **Sr.No.** | **Topics/chapters** | **Lectures** | **Topics of assignment/test** |
| 1. | Matrices and Determinants: Definition of a Matrix ; Types of Matrices, Algebra of Matrices; Calculation of values of Determinants up to third order; adjoint of a Matrix, elementary row and column operations; Finding inverse matrix through adjoint and elementary row or column operations; Solution of a system of Linear equations having unique Solution and involving not more than three variables. | Lect 1 to Lect 20 | Test of Finding inverse matrix through adjoint and elementary row or column operations, Solution of a system of Linear equations. |
| 2. | Differentiation (only algebraic problem) ; Application of differentiation. | Lect 21 to Lect 40 | Test of Differentiation. |
| 3. | Compound Interest and Annuities: Certain different types of interest rate; Concept of present value and amount of a sum; Types of annuities; Present value and amount of an annuity, including the case of continuous compounding. | Lect 41 to Lect 60 | Assignment of Compound Interest. |
| 4. | Ratio, Proportion and Percentage; Profit and Loss. | Lect 61 to Lect 80 | Assignment of Profit and Loss. |