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| **Syllabus For Final Term 2019**  **Class: 9 Subject: Mathematics 4024** | | |
| **Unit** | **Topic** | **Reference** |
| Personal and small business finance | * **Percentages** * Discount * Profit and loss * Taxation * Personal and Household finance * Simple interest& Compound interest * Hire purchase * Commission * Money | Book- 3  Ex: 6b  Ex: 6e  Ex: 6f  Ex: 6g  Ex: 6h |
| Solutions of equations and inequalities | * **Solution to quadratic equations** * Factorization * Completing the square * Using the quadratic formula * Problems involving quadratic equations * **Linear inequalities in one variable** | Book – 3  Ex: 1a  Ex: 1b  Ex: 1c  Ex: 1d  Ex: 1e  Ex: 1f |
| Coordinate geometry | * Length of segment * Mid-point * Gradient of a straight line * Equation of a straight line * Equation of parallel lines * Gradient of parallel and perpendicular lines | Book – 3  Ex: 4a  Ex: 4b  Ex: 4c |
| Symmetry | * Plane and rotational Symmetry * Planes of symmetry * Axes of rotational symmetry * Order of rotational symmetry | Book – 1  Ex: 1e |
| Similarity and Congruence | * Congruent and similar triangles * Similarity tests * Area and volume of similar figures and solids | Book – 3  Ex: 8a& 8b  Ex: 8d & 8e  Ex: 9a& 9b |
| Geometrical constructions | * Scale drawings |  |
| Statistics | * Categorical * Numerical and * Grouped data | Book – 3 (Addendum)  Ex: III a  Ex: III b |
| Statistical diagrams | * Frequency Polygon * Histograms with equal and unequal intervals * scatter diagrams | Book – 4  Ex: 5a & 5b |