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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- 3Ex: 6bEx: 6eEx: 6f Ex: 6gEx: 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 – 3Ex: 1a Ex: 1bEx: 1cEx: 1dEx: 1eEx: 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 – 3Ex: 4aEx: 4bEx: 4c |
| Symmetry | * Plane and rotational Symmetry
* Planes of symmetry
* Axes of rotational symmetry
* Order of rotational symmetry
 | Book – 1Ex: 1e |
| Similarity and Congruence | * Congruent and similar triangles
* Similarity tests
* Area and volume of similar figures and solids
 | Book – 3Ex: 8a& 8bEx: 8d & 8eEx: 9a& 9b |
| Geometrical constructions | * Scale drawings
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| Statistics | * Categorical
* Numerical and
* Grouped data
 | Book – 3 (Addendum)Ex: III aEx: III b |
| Statistical diagrams | * Frequency Polygon
* Histograms with equal and unequal intervals
* scatter diagrams
 | Book – 4Ex: 5a & 5b |