Name of the post TGT-MATHEMATICS

SYLLABUS

1. Number system
2. Algebra
3. Polynomials
4. Linear Equations in two variable and solution of pair of Linear equations
5. Complex number and quadratic equations(brief description of algebraic properties of complex numbers, square root of complex numbers, solution of quadratic equations
6. Sequence and series(Arithmetic progression and geometric progression)
7. Matrices and determinants (Application of determinants in finding areas of triangle, consistency of system of equations inverse of square matrix
8. Mensuration
9. Geometry
10. Two-dimensional geometry (equations of line, section of cone, circle, ellipse, parabola and hyperbola)
11. Vectors and three-dimensional geometry
12. Sets
13. Relations and functions
14. Permutations and combinations
15. Differential calculus and its simple applications
16. Integral calculus and its simple applications in finding area under simple curves
17. Binomial theorem for positive integral indices
18. Linear inequalities and linear programming
19. Trigonometric functions.
20. Statistics and Probability
21. Commercial Mathematics (Ratio & Proportion, Comparing Quantities)