**Class: XII(Maths)**

**Syllabus for Slow Learners**

**Subject:Maths (Session:2019-20)**

1. Equivalence reaction.
2. Inverse of function and show that given function is invertible.
3. Principal value of inverse trigonometric functions and question of type:-
4. Prove that

tan-11/5+ tan-11/7+ tan-11/3+ tan-11/8=/4

1. Show that

sin-112/13+ cos-14/5+ tan-163/16=

1. Solve for ‘x’

tan-1x-1/x-2 + tan-1x+1/x+2 = /4

1. In matrix as prepare only three type of questions
2. Matrix multiplication.
3. Solution of the system of linear equation in two or three variables by matrix method.
4. Inverse of a matrix by elementary transformations.
5. Determinant questions which starts with R1+R2+R3 or C1+C2+C3.
6. Testing the continuity of a function at a given point.
7. Differentiation-
8. Logarithmic diff.
9. Derivative of parametric function.
10. Second order derivative.
11. Application of derivative
12. Tangent and normal.
13. Maxima and minima.
14. Derivative as rate measure.
15. Integration-
16. Methods of integration substitution, partial fraction and parts.
17. Integral of types:-

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1. Application of integral – Area under curve.
2. Differential equations –
3. Homogeneous diff. Equations.
4. Linear diff. Equations.
5. Linear programming.
6. Mathematical formulation of LPP
7. Finding feasible region.
8. Probability
9. Baye’s theorem.
10. Probability distribution of random variable.
11. Vector -

Scalar product, vector product and scalar

triple product.

1. Three dimensional coordinate geometry-
2. Cartesian and vector equation of lines.
3. S.D b/w two skew lines.
4. Angle b/w the lines.
5. Standard equation of plane in vector and Cartesian form.
6. Plane passing through three points.
7. Plane passing through the line of intersection of two planes.
8. To find the distance of a point from a plane/ line perpendicular/parallel to a given plane/line.
9. Equation of the plane that contains a point and is perpendicular/parallel to a given plane/line.