

CHAPTER NAME	24th JAN S-01	24th JAN S-02	25JANUARY Shift-01	25 JANUARY Shift-02	29 JANUARY Shift-01	29 JANUARY Shift-02	30 January s-01	30 Jan s-02	31st January Shift-01	31st January shift-02	1 Feb S-01	1-Feb S-02
1.SETS, RELATIONS	1.Power Set Types of Relation	2. 1.Equivalence Relation	1. No of Set				1. Equivalence Relation		1.Equivalence Relation	1.Type of Relation	1. Finding no of elements in a set 2. Equivalence relation	1.Equivalence relation 2. No of elements in a set
2.FUNCTIONS		1.Functional Equation 2. $f(x)+f(1-x)$	1. Inverse of Composite Function	1. Range of Logarithmic & Trigonometric 2. Number of Functions 3. Function Value finding			1 Functional equation	1.Range of rational function 2. Number of functions	1.Domain and Range of g.I.f function	1.Range of Rational Function		1. Functional equation
3.COMPLEX NUMBERS	1. Eulers Form	1.Demoivers Theorem	1. Geemetry of Complex No.	1. Geometry of Complex No.	1.Basics of complex No.	1. Conjugate Problem	1. Argument of complex number	1. nth root	1.Geometry Problem	1.Eulers Form	1. Geometry of complex numbers	1. Geometry of complex numbers
4.QUADRATIC EQUATIONS	1.Finding roots using g.I.f 2.Quadratic Involving Modulus	1. No of Real Solutions	1. Miscellaneas Problem	1. Relation b/w Roots	1. Common Root	1. Finding Roots of x to the power 7		1. Common root	1.Finding no of Real Roots			1.Location of roots
5.MATRICES	1.Properties of Matrix 2. Algebra of Matrices	1. No of Matrices		1. Relation b/w Roots 1. periodic Matrix 2. properties of symmetric & skew symmetric	1. Matrix Polynomial	1.Finding Inverse of Matrix 2. Symmetric Matrix	1.Symmetric and transitive		1.Product of Matrices upto n times	1.Solving Matrices 2.Finding no of Matrices with given Condition		1.Finding power of matrix
6.DETERMINANTS		1.Cramers Rule 2. Properties of Adjoint and Inverse	1. properties of adjoint 2. Cramers Rule				1.Cramers rule 2.property of adjoint	1. Properties of adjoint 2. Cramers rule	1.Cramers Rule	1. Properties of Adjoint	1. Solving determinant and finding max and min value	1. Cramers rule
7.PERMUTATIONS AND COMBINATIONS											1. Finding no of words that can be formed by ASSASINATIO N 2. No of 3 digits divisible by 2 /3	1. Finding no of words that can be formed by ASSASINATIO N 2. No of 3 digits divisible by 2 /3
8.MATHEMATICAL INDUCTIONS	1.Selection Concept 2. Arrangement of Digit	1.Digit Problem	1. Arangement using Digits	1. Digit Problem	1. Rank Of number 2. Rank of a Number		1.number of four digit numbers divisible by given number	1. Number problem using P & C 2. Digit problem	<a href="#">1.No of Digits Divisible by Certain Number 2.Rank Problem</a>	1.Solving Permutation Algebra		1. No of numbers of six digit divisible by 6
9.BINOMIAL THEOREM	1.Summtion of Product of B.C's 2.Product of B.Cs	1.Summtion of B.C's	1. properties of B.C's and Summtation Mix 2. Term in dependent of X	1. summation of binomial coefficient 2. Finding Remainder	1. Coefficient of middle term 2. General term	1. Middle term of function	1.finding coefficient equating to coefficient	1. Expansion	1.General Term 2.Finding Remainder	1.General Term 2.Finding Coefficient	1. Finding remainder	1. Finding term independent of x <sup>2</sup> . Binomial expansion
10.SEQUENCE AND SERIES	1.Basics of AP 2.Basics of GP	1.Summtion of Special Series	1. General Term of A.P	1. Basics Of A.P + G.P	1. Basic of GP 2. Summtation & functional Equaton mix.	1. Summtion problem with recurrence 2. Common ratio & Summtation mix problem	1.sum of special series complex problem of summation 1.solving limit involving definite integration	1. Basics of AP and GP 2. Sum of common term of series 1. Limit of composite functions 2. Infinity problem	1.Basics of G.P 2.Solving by Elimination	1.Basics of AP 2.Special sum problem	1. Limit as a sum	
11.LIMIT	1.Limit of g.I.f 1.Limit of g.I.f	1.Limit of g.I.f	1.Limit tending to infinity							1.Limit using Rationalisation	1. Differentiation of two functions 2. Newton leibnitz rule	1. Double diffrentiation
12.CONTINUITY & DIFFERENTIABILITY	1.Continuity of piecewise function	1.Higher order Differentiation 2.Newton Leibnitz Problem	1. Differentiation of manipulative rational functions	1.Continuity using LHL & RHL		1. Double differentiation problem			1. Newton Leibnitz 2. Differentiation of Complex Function	1.Newton Leibnitz		
13.INDEFINITE INTEGRATION								1. Direct integration				
14.DEFINITE INTEGRATION	1.Definite Integration of Modulus Function 2. Queens Rule	1.Integration of Standard Formula	1. Partial Fraction Method	1. KUTUR- PUTUR Method 2. Modulus Function type Problem		1. Replacement of x by 1/x 2. Integral of Rational function	1. Integrating GIF functions		1.Expansion Problem 2. Standard form of Trigonometric Integration	1.Rationalization	1. Taking highest power common ( KUTURPUTUR TECH)	1. -a to a rule 2. Queens formula
15.AREA UNDER CURVE	1.Area b/w Line and Parabola	1.Area b/w Line and Parabola	1. Area b/w Parabola		1. Area of circle & parabola 2. Area of circle using Integration	1. area of Trigonometric function	1.area between line and parabola	1. Area using inequalities 2. Mix parabola area	1.Area of fog(x)	1.Area of Inequalities	1. Basic problem of area b/w modulus and ordinates	1. Bernoulli's equation
16.DIFFRENTIAL EQUATIONS	1.Variable Separable Form	1.Homogeneous Form	1. Bernouli's Theorem	1. Linear differential equation	1. Miscellaneous problem $y = f(x) \cdot x$ 2.Linear Differential equation	1. Linear diffrenetial equation	1.Linear differential equation	1. Homogenous form		1.Homogeneous Form	1. Orthocentre of triangle 2. Angle Bisector problem 3. Area of quadrilateral	
17.Straight line	1.Area of Triangle	1.Orthocentre 2. Centroid of Triangle		1.No. of points inside a triangle	1. Reflection concept in starlight line 2. Area of triangle 1. Tangent at a Point on circle	1. Area of Triangle Mixing line , Parabola & Ellipse	1. Tangent at circle 2. Area of Triangle & Circumcircle	1.Tangent to the circle	1.Common tangent of crcle and parabola 2. Miss. problem	1.Perpendicular and Image type	1.Chord of Circle 1.Tangent on the line Parabola 2.Normal on Parabola	1. Focal chord of parabola
18.Circle		1.Locus Problem	1. Image of circle	1. Tangent to a circle	1. Tangent to Parabola			1.Distance and directrix mix	1. Intersection of parabola			
19.PARABOLA	1.Tangent to Parabola and Hyperbola		1. Common tangent b/w Parabola									
20.ELLIPSE	1.Combination of Circle & Ellipse 2.Tangent to Ellipse								1.Normal to the Ellipse			1. Tangent & Directrix of ellipse
21.HYPERBOLA			1. Normal to hyperbola	1. Combination of hyperbola & Parabola						1.Basics of Hyperbola	1. Finding point on hyperbola nearest to given line	1. Tangent & Directrix of ellipse
22.VECTOR	1.Dot & Cross Product	1.Dot and Cross product 2.Dot Product	1. Vector Triple Product 2. Projection of two vector	1.Dot & Cross Product	1. Projection of Vector 2. Coplanar Vector	1. Projection of Vector 2. Dot & Cross Product	1.Vector triple product	1. Dot and cross product 2. Cross product	1.Basic algebra of Vectors 2. Lagranges Identity	1.Volume of TetraHedron 2.Dot and Cross Product 3.Cross and Dot Product	1. Vector triple product	1. Projection of vector 2. Dot and cross product
23.3D	1.Distance of a point from a Plane 2.Distance of a point from plane measured parallel to line 3.Shortest distance between skew lines	1.Line of Intersection of two planes 2.Foot of Perpendicular 3. Shortest distance b/w lines	1. Distance of points paralll to given line 2. distance b/w two lines 3. Distance of point from plane	1. Coplanarity 2. Shortest distane 3. Foot of a perpendicular 4. shortest distance	1.Area Of Traingle with given line 2. Distance of plane from a point	1. Shortest distance between line 2. Intersection of line & plane 3. Intersection of lines	1.Angle between two planes given in vector form 2. perpendicular line and plane 3. shortest distance between lines and planes 4.finding equation of plane with given condition	1. Combination of line and plane 2. Finding plane 3. Distance of point from line	1.Intersection of line and plane 2.Shortest Distance b/w the lines 3.Combination of Line and Plane	1.Equation of Plane 2. Combination of Line and Plane	1. Shortest distance between two lines 2. Image of a point in plane	1. Intersection of planes 2. Miss. problems using DR. 3. LINE AND PLANE mix
24.STATISTICS		1.Mean and Variance	1. Mean & Variance		1. Probability using GP 2. Bayes Theorem 3. Problem using atleast	1. Mean & Variance 2. Probabability with atleast statement	1. Variance	1. Mean and variance	1. Mean deviation about mean	1.Variance	1. Mean and variance	1. Standard deviation
25.PROBABILITY		1.Bayes Theorem	1. Probability using algebraic equation				1. Successive Probability	1. Dice problem solving,	1. Probability in succession	1.Bayes Theorem	1. Binomila distribution	1. Dice problem on indepoendent event

26. TRIGONOMETRY		1. Summation of Trigonometric Function		1. Trigonometric equation using multiple angle	1. Summation Trigonometric Function	1. Solving Trigonometric Equation	1. tan15° problem				1. Solution using triangle problem		
27. INVERSE TRIGONOMETRY	1. tan-1x+tan-1y form		1. tan-1x+tan-1y form				1. solving log mixed with inverse trigonometry	1. Summation of tan inverse series	1. Solving Equation of I.T.F	1. Range of Inverse Function	1. Finding solution of ITF		
28. MATHEMATICAL REASONING	1. Equivalent Compound Statement	1. Equivalent Statement	1. Equivalent statement	1. Tautology	1. Three statement Problem	1. Equivalent statement	1. Tautology	1. Statement based problem	1. Tautology and Contradiction	1. Tautology	1. Negation of two statements	1. Tautology	
29. AOD			1. Minimum value of modulus function with integration 2. Local Maxima of a Rational function 3. Mix type of function & monotonicity containing statement	1. Maxima & Minima of cubic function		1. Equation of Normal using differentials	1. finding normal using differentials	1. Common extremum finding	1. Word Problem	1. Maxima & Minima of Absolute & g.I.F Function 2. Solution of Equation using Differential	1. Intersection of normal mixed with Diff equation 2. Monotonicity & Maxima, Minima problem	1. Maxima and minima of absolute value functions	

