

Number of Days	Date	Day	Name	Topics to be Covered	Subtopic
1	21 November	Tuesday	Anuj	Quadratic equations and Inequalities	Quadratic equations in real and complex number system and their solutions Relations between roots and co-efficient, nature of roots,
2	22 November	Wednesday	Anuj	Quadratic equations and Inequalities	the formation of quadratic equations with given roots,inequalities.
3	23 November	Thursday	Divyank	Sets , Relations and Functions	Sets and their representation: Union, intersection, and complement of sets and their algebraic properties
4	24 November	Friday	Divyank	Sets , Relations and Functions	Power set; Relation, Type of relations, equivalence relations, functions; one-one, into and onto functions, the composition of functions.
5	25 November	Saturday	Sobur	Statistics	Measures of discretion; calculation of mean, median, mode of grouped and ungrouped data calculation of standard deviation, variance, and mean deviation for grouped and ungrouped data.
6	26 November	Sunday	Sobur	Probability	Probability: Probability of an event, addition and multiplication theorems of probability, Baye's theorem, probability distribution of a random variate,
7	27 November	Monday	Anuj	Matrices, Determinants	Matrices, algebra of matrices, type of matrices, determinants, and matrices of order two and three, evaluation of determinants, area of triangles using determinants
8	28 November	Tuesday	Anuj	Matrices, Determinants	Adjoint, and evaluation of inverse of a square matrix using determinants and, Test of consistency and solution of simultaneous linear equations in two or three variables using matrices
9	29 November	Wednesday	Divyank	Permutation and Combination	The fundamental principle of counting, permutation as an arrangement and combination as section, Meaning of P (n,r) and C (n,r), simple applications.
10	30 November	Thursday	Divyank	Permutation and Combination	The fundamental principle of counting, permutation as an arrangement and combination as section, Meaning of P (n,r) and C (n,r), simple applications.
11	1 December	Friday	Divyank	Binomial Theorem	Binomial theorem for a positive integral index, general term and middle term, and simple applications.
12	1 December	Friday	Anuj	Sequence and Series	Arithmetic and Geometric progressions, insertion of arithmetic
13	2 December	Saturday	Anuj	Sequence and Series	Geometric means between two given numbers, Relation between A.M and G.M
14	3 December	Sunday	Muskan	Trigonometric Functions	Trigonometrical identities and trigonometrical functions, inverse trigonometrical functions, and their properties,
15	4 December	Monday	Muskan	Trigonometric Functions	Trigonometrical identities and trigonometrical functions, inverse trigonometrical functions, and their properties,
16	5 December	Tuesday	Anuj	Inverse Trigonometric Functions)	Trigonometrical identities and trigonometrical functions, inverse trigonometrical functions, and their properties,
17	6 December	Wednesday	Anuj	Inverse Trigonometric Functions)	Trigonometrical identities and trigonometrical functions, inverse trigonometrical functions, and their properties,
18	7 December	Thursday	Sobur	Real Function	Real-valued functions, algebra of functions, polynomials, rational, trigonometric, logarithmic, and exponential functions, inverse function. Graphs of simple functions. ,
19	8 December	Friday	Sobur	Limit , Continuity and Differentiability	Limits, continuity, and differentiability
20	9 December	Saturday	Sobur	Differentiation	Differentiation of the sum, difference, product, and quotient of two functions. Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential,
21	10 December	Sunday	Sobur	Differentiation	composite, and implicit functions; derivatives of order up to two
22	11 December	Monday	Sobur	Applications of Derivatives	Applications of derivatives: Rate of change of quantities, monotonic-Increasing and decreasing functions
23	12 December	Tuesday	Sobur	Maxima and Minima	Maxima and minima of functions of one variable
24	13 December	Wednesday	Aditya	Indefinite Integrals	Integral as an anti-derivative, Fundamental integral involving algebraic, trigonometric, exponential, and logarithmic functions. using trigonometric identities.
25	14 December	Thursday	Aditya	Indefinite Integrals	Integrations by substitution, by parts, and by partial functions. Integration using trigonometric identities.
26	15 December	Friday	Aditya	Definite Integrals	. Evaluation of definite integrals
27	16 December	Saturday	Aditya	Definite Integrals	. Evaluation of definite integrals
28	17 December	Sunday	Aditya	Area Bounded by the Curves	, determining areas of the regions bounded by simple curves in standard form.
29	18 December	Monday	Aditya	Area Bounded by the Curves	, determining areas of the regions bounded by simple curves in standard form.
30	19 December	Tuesday	Sobur	Differential Equations	Ordinary differential equations, their order, and degree, the solution of differential equation by the method of separation of variables, solution of a homogeneous and linear differential equation of the type
31	20 December	Wednesday	Sobur	Differential Equations	Solution of a homogeneous and linear differential equation of the type
32	21 December	Thursday	Aditya	Vector Algebra	Vectors and scalars, the addition of vectors, components of a vector in two dimensions and three-dimensional space, scalar and vector products,
33	22 December	Friday	Aditya	Vector Algebra	Vectors and scalars, the addition of vectors, components of a vector in two dimensions and three-dimensional space, scalar and vector products,
34	23 December	Saturday	Aditya	3D Geometry	Coordinates of a point in space, the distance between two points, section formula, directions ratios, and direction cosines, and the angle between two intersecting lines. Skew lines, the shortest distance between them, and its equation. Equations of a line
35	24 December	Sunday	Aditya	3D Geometry	Coordinates of a point in space, the distance between two points, section formula, directions ratios, and direction cosines, and the angle between two intersecting lines. Skew lines, the shortest distance between them, and its equation. Equations of a line
36	25 December	Monday	Muskan	Cartesian System of Rectangular Coordinates	Cartesian system of rectangular coordinates in a plane, distance formula, sections formula, locus, and its equation, the slope of a line, parallel and perpendicular lines, intercepts of a line on the co-ordinate axis.
37	26 December	Tuesday	Muskan	Straight Lines	Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, the distance of a point from a line, co-ordinate of the centroid, orthocentre, and circumcentre of a triangle,

38	27 December	Wednesday	Muskan	Straight Lines	Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, the distance of a point from a line, co-ordinate of the centroid, orthocentre, and circumcentre of a triangle,
39	28 December	Thursday	Divyank	The Circle	A standard form of equations of a circle, the general form of the equation of a circle, its radius and central, equation of a circle when the endpoints of a diameter are given
40	29 December	Friday	Divyank	The Circle	points of intersection of a line and a circle with the centre at the origin, various question
41	30 December	Saturday	Anuj	Conic sections	equations of conic sections (parabola) in standard forms,
42	31 December	Sunday	Anuj	Conic sections	equations of conic sections (ellipse) in standard forms,
43	1 January	Monday	Anuj	Conic sections	equations of conic sections ( hyperbola) in standard forms,
44	2 January	Tuesday	Sobur	Complex Number	Complex numbers as ordered pairs of reals, Representation of complex numbers in the form $a + ib$ and their representation in a plane, Argand diagram, algebra of complex number, modulus
45	3 January	Wednesday	Sobur	Complex Number	Argument (or amplitude) of a complex number, problems.