

स्कूल व्याख्याता

द्वितीय प्रश्न-पत्र

गणित

टास्क आधारित TEST SERIES



MINOR TEST 10

MAJOR TEST 02

FINAL TEST 04

Offline Online

सीकर सेन्टर : नवलगढ रोड, सीकर (राज.)
जयपुर सेन्टर : रिद्धि-सिद्धि चौराहा,
गोपालपुरा बाईपास, जयपुर

Sikar Center

72400-12121

Jaipur Center

99828-44044

ऑफलाइन परीक्षा केन्द्र

१ अजमेर	१ बीकानेर	१ जोधपुर (East)	१ जैतारण	१ कोटपूतली	१ फलोदी	१ सुजानगढ़
१ अलवर	१ बूंदी	१ जोधपुर (West)	१ जायल	१ कुचामन	१ राजसमंद	१ सूरतगढ़
१ बांसवाड़ा	१ चित्तौड़गढ़	१ धौलपुर	१ झुंझुनूं	१ नागौर	१ सागवाड़ा	१ तारानगर
१ बाड़मेर	१ चूरु	१ डूंगरपुर	१ झालावाड़	१ नीमकाथाना	१ सवाई माधोपुर	१ टोंक
१ भरतपुर	१ दौसा	१ गंगापूर सिटी	१ झोटावाड़ा (जयपुर)	१ नौहर	१ सीकर	१ उदयपुर
१ भीलवाड़ा	१ डेगाना	१ हनुमानगढ़	१ करौली	१ पाली	१ सिरौही	
१ ब्यावर	१ डीडवाना	१ जयपुर	१ कोटा	१ प्रतापगढ़	१ श्रीगंगानगर	

टेस्ट सीरीज की प्रमुख विशेषताएँ

- ऑफलाइन अभ्यर्थियों के लिए पाठ्य सामग्री का वितरण किया जायेगा।
- ऑनलाइन टेस्ट हेतु पाठ्य सामग्री केवल Read Only Mode में उपलब्ध होगी।
- प्रश्न-पत्र का माध्यम हिन्दी व अंग्रेजी दोनों होगा।
- प्रथम प्रश्न-पत्र के लिए टास्क बुकलेट उपलब्ध करवायी जाएगी जिसका माध्यम केवल हिन्दी होगा।
- द्वितीय प्रश्न-पत्र के लिए PYQ और ICT टास्क बुकलेट उपलब्ध करवायी जाएगी।

OFFLINE MODE

प्रथम प्रश्न-पत्र
2900/- + GST
With Booklet

द्वितीय प्रश्न-पत्र
1800/- + GST
PYQ & ICT Booklet

प्रथम व द्वितीय प्रश्न-पत्र
4500/- + GST

प्रथम प्रश्न-पत्र
1700/- + GST
Without Booklet

द्वितीय प्रश्न-पत्र
1800/- + GST
PYQ & ICT Booklet

प्रथम व द्वितीय प्रश्न-पत्र
3400/- + GST

ONLINE MODE

प्रथम प्रश्न-पत्र
800/- + GST
With Booklet
(Read Only Mode)

द्वितीय प्रश्न-पत्र
800/- + GST
PYQ & ICT Booklet
(Read Only Mode)

- ऑनलाइन टेस्ट सीरीज में बुकलेट एप पर रीड ऑनली मोड में ही उपलब्ध रहेगी।

रजिस्ट्रेशन के लिए QR कोड
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TEST	DATE	REMARK
Minor Test-01	01.02.2026	
Minor Test-02	08.02.2026	
Minor Test-03	15.02.2026	
Minor Test-04	22.02.2026	
Minor Test-05	01.03.2026	
Major Test-01	08.03.2026	
Minor Test-06	15.03.2026	
Minor Test-07	22.03.2026	
Minor Test-08	29.03.2026	
Minor Test-09	05.04.2026	
Minor Test-10	12.04.2026	
Major Test-02	19.04.2026	
Final Test-01	26.04.2026	
Pre. 1st Grade	03.05.2026	
Final Test-02	10.05.2026	
Final Test-03	17.05.2026	

नोट:- विशेष परिस्थिति में परीक्षा के दिन एवं दिनांक में परिवर्तन किया जा सकता है।

Schedule & Syllabus

Test & Date	Syllabus
<div> <div>MINOR TEST 01</div> <div>01.02.2026</div> </div>	<p>Sets, Relations and Functions:</p> <ul style="list-style-type: none"> * Sets and their representations. Different kinds of sets. Sub set, Universal set, Venn diagrams. Operation on Sets. De-Morgan's laws and practical problems based on them. Ordered pair, Cartesian product of sets, relation, domain, co-domain and range of relation, equivalence relation. Function as a special case of relation, domain, codomain, range of functions, invertible functions, even and odd functions, into, onto and one-to-one functions, special functions (polynomial, trigonometric, exponential, logarithmic, absolute value, greatest integer etc.), sum, difference, product and composition of functions. <p>Trigonometry:</p> <ul style="list-style-type: none"> * Measuring angles in radians and in degrees, trigonometric functions and their graphs, trigonometric identities. General solution of trigonometric equations. Inverse trigonometric functions (principal value only) and their elementary properties. <p>Algebra:</p> <ul style="list-style-type: none"> * Quadratic equation with real coefficients, formation of quadratic equation with given roots, relation between roots and coefficients. Symmetric functions of roots. Linear and quadratic inequations. Algebra of complex numbers, addition, multiplication, conjugation, polar representation, properties of modulus and principal argument, triangle inequalities, cube roots of unity, geometric interpretations of complex number. Arithmetic and geometric progressions, nth term, sum of n terms, arithmetic and geometric means, infinite geometric series, Arithmetico-Geometric Progression. Sum of the first 'n' natural numbers, sums of squares and cubes of the first 'n' natural numbers, Fundamental principle of counting. Factorial n (n!). Permutations and Combinations and simple applications. Exponential and logarithmic series, Binomial theorem, simple applications, general term and middle term, properties of binomial coefficients. <p>Matrices and Determinants:</p> <ul style="list-style-type: none"> * Matrices, algebra of matrices, type of matrices, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition, multiplication and multiplication with a scalar. Determinants of order two and three, properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle, Adjoint and inverse of a square matrix, inverse of matrix using elementary transformations, Test of consistency and solution of simultaneous linear equations in two and three variables using determinants and matrices. <p>Pedagogy and Teaching Learning Material</p> <ul style="list-style-type: none"> * Communication skills and use of various verbal and non verbal classroom communication strategies.

Schedule & Syllabus

Test & Date	Syllabus
 <p>MINOR TEST 02</p> <p>08.02.2026</p>	<p>Calculus:</p> <p>* Limits, continuity and differentiability. Differentiation of the sum, difference, product and quotient of two functions. Chain rule, derivative of composite functions, derivatives of trigonometrical, inverse trigonometric functions, derivative of implicit functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second and third order derivatives. Rolle's and Lagrange's Mean value Theorems, Applications of derivatives: Rate of change of quantities, monotonic increasing and decreasing functions, Maxima and minima of functions of one variable, tangent and normal. Integral as an antiderivative, Integration of a variety of functions by substitution, by partial fractions and integration by parts. Integration of rational and irrational functions. Definite integral and their properties, application of definite integrals in finding the area under simple curves, especially lines, arcs of circles/parabolas/ellipses/hyperbola, area between the said curves (the region should be clearly identifiable).</p> <p>Pedagogy and Teaching Learning Material</p> <p>* Teaching models- advance organizer and inquiry training (information processing) Group Investigation (Social Interaction) Non-Directive model (Personal development).</p>
 <p>MINOR TEST 03</p> <p>15.02.2026</p>	<p>Two-Dimensional Geometry:</p> <p>* Cartesian coordinates, distance between two points, section formulae, shift of origin. Equation of a straight line in various forms, slope of line, angle between two lines, distance of a point from a line, lines through the point of intersection of two given lines, equation of the bisector of the angle between two lines, concurrency of lines. Centroid, orthocenter, incentre and circumcenter of a triangle. Equation of a circle in various forms, equation of tangent, normal and chord of a circle. Parametric equations of a circle, intersection of a circle with a straight line/ circle, equation of a circle through the points of intersection of two circles and those of a circle and a straight line. Equation of a parabola, ellipse, hyperbola and their foci, directrices and eccentricity, parametric equations, equations of tangent and normal. Problems based on locus. General equation of second degree. Nature of conic. Polar equation of a conic, polar equation of tangent, normal, asymptotes, chord of contact, auxiliary circle, director circle of a conic and related problems.</p> <p>Pedagogy and Teaching Learning Material</p> <p>* Preparation and use of teaching-learning material during teaching.</p>

Schedule & Syllabus

Test & Date	Syllabus
 <p>MINOR TEST 04 22.02.2026</p>	<p>Vector Algebra:</p> <ul style="list-style-type: none"> * Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors etc.), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors. Scalar and Vector triple product and problems related to them. <p>Statistics and Probability:</p> <ul style="list-style-type: none"> * Measures of dispersion: Standard deviation, variance and mean deviation for grouped and ungrouped data. Probability: Probability of an event, addition and multiplication theorems of probability, conditional probability, Bayes' theorem, total probability, probability distribution of a random variate, Bernoulli trials and binomial distribution. <p>Pedagogy and Teaching Learning Material</p> <ul style="list-style-type: none"> * Cooperative learning. <p>Use of Computers and Information Technology in Teaching Learning</p> <ul style="list-style-type: none"> * E-learning and Virtual Classroom.
 <p>MINOR TEST 05 01.03.2026</p>	<p>Abstract Algebra:</p> <ul style="list-style-type: none"> * Definition and example of groups. General properties of groups, Order of an element of a group. Cyclic group, Permutations: Even and Odd permutations. Groups of permutations. Cyclic permutation, Alternating group. Subgroups, Cosets, Lagrange's theorem, Normal subgroup, Conjugate elements, conjugate complexes, Centre of a group, Simple group, Normaliser of an element and of a complex. Quotient Groups. Group homomorphism and isomorphism with elementary basic properties, fundamental theorem of homomorphism in groups. Isomorphism theorems of groups. Cayley's theorem. Ring Theory: Introduction to Rings, Zero divisors, Division ring, Integral Domain and Fields, their examples and properties. Ideals of a ring, Quotient rings. <p>Use of Computers and Information Technology in Teaching Learning</p> <ul style="list-style-type: none"> * Concept of ICT and Digital learning . * Technology integration in teaching-learning and assessment. <p>Major Test-01 (08.03.2026)</p> <p>Minor-01 + Minor-02 + Minor-03 + Minor-04 + Minor-05</p>

Schedule & Syllabus

Test & Date	Syllabus
<div> <p>MINOR TEST 06</p> <p>15.03.2026</p> </div>	<p>Complex Analysis:</p> <ul style="list-style-type: none"> * Functions, Limits, Continuity and Differentiability of complex functions. The extended plane and its spherical representation, Concept of an analytic function, Cartesian and Polar form of Cauchy-Riemann equations. Harmonic functions, Construction of an analytic function, Conformal mapping, Bilinear transformation and its properties, Fixed points, Cross ratio, Inverse point. <p>Real Analysis:</p> <ul style="list-style-type: none"> * Real numbers as a complete ordered field, linear sets, lower and upper bounds, limit points, closed and open sets. Real sequence, limit and convergence of a sequence, convergence of series, tests for convergence of a series, absolute convergence, uniform convergence of sequence and series of functions. <p>Linear Algebra and Metric Spaces:</p> <ul style="list-style-type: none"> * Definition and examples of a vector space, subspace of a vector space. Linear combination, Linear dependence and independence of vectors. Direct product of vector spaces and internal direct sums of subspaces. Bases and dimension of a finitely generated spaces, Quotient space, Isomorphism, Linear transformation (Homomorphism), Rank and nullity of linear transformation. The characteristic equation of a matrix, Eigen values and Eigen vectors, Cayley-Hamilton theorem. Definition and example of a metric space, Diameter of a set, Bounded set, Open sphere, Interior point and Interior of a set, Derived and Closure of set, Closed set, Closed Sphere, Properties of Open and Closed sets, Boundary point of set, Convergent and Cauchy sequences, complete metric space, Cantor's Intersection theorem. Bolzano-Weierstrass theorem, Heine-Borel theorem, Compactness, connectedness, Cantor's ternary set. <p>Pedagogy and Teaching Learning Material</p> <ul style="list-style-type: none"> * Communication skills and use of various verbal and non verbal classroom communication strategies. (Revision)

Schedule & Syllabus

Test & Date	Syllabus
<div> <p>MINOR TEST 07</p> <p>22.03.2026</p> </div>	<p>Advance Calculus:</p> <ul style="list-style-type: none"> * Polar Co-ordinates. Angle between radius vector and the tangent. Angle between two curves in polar form. Length of polar tangent, sub-tangent, normal and subnormal, Pedal equation of a curve, Derivatives of an arc. Curvature, various formulae, Centre of curvature and chord of curvature and related problems. Partial differentiation, Euler's theorem on homogeneous functions, Chain rule of partial differentiation, total differentiation. Maxima and Minima of functions of two independent variables and of three variables connected by a relation, Lagrange's Method of undetermined multipliers. Asymptotes, double points, curve tracing. Envelopes and evolutes. Theory of Beta and Gamma functions. Differentiation and integration under the sign of integration. Double integral, Change of order of integration and changing into polar co ordinates, applications in finding areas, triple integral, application to find volume. Dirichlet's integral. Quadrature and Rectification. Volume and Surface area of solids of revolution. <p>Integral Transforms:</p> <ul style="list-style-type: none"> * Laplace transform: Definition and its properties. Rules of manipulations, Laplace theorems of derivatives and integrals, Properties of Inverse Laplace transforms, Convolution theorem, Complex inversion formulas, applications to the solutions of ordinary differential equations with constant and variable coefficients. Fourier Transform: Definition and properties of Fourier sine, cosine and complex transforms. Convolution theorem. <p>Pedagogy and Teaching Learning Material</p> <ul style="list-style-type: none"> * Teaching models- advance organizer and inquiry training (information processing) Group Investigation (Social Interaction) Non-Directive model (Personal development). (Revision)

Schedule & Syllabus

Test & Date	Syllabus
<div>MINOR TEST 08 29.03.2026</div>	<p>Ordinary and Partial Differential Equations:</p> <ul style="list-style-type: none">* Order and degree of differential equation. Ordinary differential equations of first order and first degree, differential equations of first order but not of first degree, Clairaut's equations, general and singular solutions, linear differential equations with constant coefficients, homogeneous differential equation, second order linear differential equations, simultaneous linear differential equations of first order. Partial differential equations of the first order. Linear partial differential equation with constant coefficient. <p>Special Function:</p> <ul style="list-style-type: none">* Legendre's differential equation and associated Legendre's differential equations, Simple properties of Legendre's functions of first and second kind. Bessel functions, Generating function, Integral formulae, Recurrence relations, Addition formula and other properties of Bessel functions. <p>Pedagogy and Teaching Learning Material</p> <ul style="list-style-type: none">* Preparation and use of teaching-learning material during teaching. (Revision)

Schedule & Syllabus

Test & Date	Syllabus
<div> <p>MINOR TEST</p> <p>09</p> <p>05.04.2026</p> </div>	<p>Vector Calculus:</p> <ul style="list-style-type: none"> * Vector differentiation: Curl, Gradient and Divergence, identities involving these operators and related problems. Vector integration: line and surface integral, Problems based on Stoke, Green and Gauss theorems. <p>Three-Dimensional Geometry:</p> <ul style="list-style-type: none"> * Distance between two points, direction cosines and direction ratios, equation of a straight line in space, various form, skew lines, shortest distance between two lines, equation of a plane, various form, distance of a point from a plane and a line, Cartesian and vector equation of a plane and a line. Angle between (i) two lines, (ii) two planes (iii) a line and a plane. Coplanar lines. Sphere: Equation of a sphere in various forms, tangent plane, Pole and Polar, Intersection of two spheres, Orthogonal spheres. Cone, Enveloping cone, Tangent plane, Reciprocal cone, three mutually Perpendicular generators, right circular cone. Cylinder, right circular cylinder, Enveloping cylinder. <p>Differential Geometry:</p> <ul style="list-style-type: none"> * Differential Geometry: Curves in Space- Space curves, Contact of a curve and a surface. Definition of unit tangent vector, tangent line, Principal Normal, Binormal and Normal plane. <p>Pedagogy and Teaching Learning Material</p> <ul style="list-style-type: none"> * Cooperative learning. (Revision) <p>Use of Computers and Information Technology in Teaching Learning</p> <ul style="list-style-type: none"> * E-learning and Virtual Classroom. (Revision)

Schedule & Syllabus

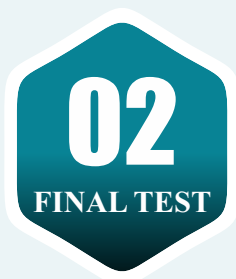
Test & Date	Syllabus
<div> <div>MINOR TEST 10</div> <div>12.04.2026</div> </div>	<p>Statics and Dynamics:</p> <ul style="list-style-type: none"> * Composition and resolution of co-planer forces, component of a force in two given directions, equilibrium of concurrent forces, parallel forces and moment, Equilibrium of a body under several coplaner forces. Friction, Virtual work and common catenary. Velocity and acceleration, Velocities and accelerations along radial and transverse directions, and along tangential and normal directions, simple linear motion under constant acceleration, Laws of motion, projectile, Simple Harmonic Motion, Rectilinear motion under variable laws. Hook's law, linear motion in resisting medium, constrained motion on smooth plane curves (circular and cycloidal motion). <p>Tensors:</p> <ul style="list-style-type: none"> * Transformation of coordinates, Contravariant, covariant and mixed tensors, second order tensors, Higher order tensors. Addition, subtraction and multiplication of tensors, Contraction, Quotient Law, symmetric and skew symmetric tensors: Conjugate symmetric tensors of the second order, Fundamental tensor, Associated tensors, Christoffel symbols, Transformation law of Christoffel symbols, Covariant differentiation of vectors and tensors. <p>Numerical Analysis:</p> <ul style="list-style-type: none"> * Difference operators and factorial notation, Differences of polynomial, Newton's formulae for forward and backward interpolations. Divided differences, relation between divided differences and Simple difference. Newton's general interpolation formulae, Lagrange interpolation formula. Central differences, Gauss, Stirling and Bessel interpolation formulae. Numerical Differentiation. Numerical integration, Newton-Cotes quadrature formula, Gauss's, quadrature formulae, Trapezoidal, Simpson's and Weddle's rules. Estimation of errors, Transcendental and polynomial equations, bisection method, iteration method, Regula Falsi method, Newton Raphson method. <p>Optimization Technique:</p> <ul style="list-style-type: none"> * Convex sets and their properties. Simplex Method. Concepts of duality in linear programming. Framing of dual programming. Assignment problems, Transportation problems. Theory of Games: Competitive strategies, minimax and maximin criteria, two-person zero-sum games with and without saddle point. <p>Use of Computers and Information Technology in Teaching Learning</p> <ul style="list-style-type: none"> * Concept of ICT and Digital learning . * Technology integration in teaching-learning and assessment. (Revision) <div> <div>Major Test-02 (19.04.2026)</div> <div>Minor-06 + Minor-07 + Minor-08 + Minor-09 + Minor-10</div> </div>

स्कूल व्याख्याता

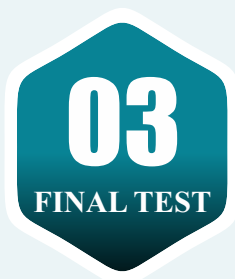
टास्क आधारित TEST SERIES



26.04.2026



10.05.2026



17.05.2026

परीक्षा से पहले एक परीक्षा

Pre. 1st Grade

03.05.2026



सीकर सेन्टर : नवलगढ रोड, सीकर (राज.) मो. : 72400-12121
रिद्धि-सिद्धि चौराहा, गोपालपुरा बाईपास,
जयपुर सेन्टर : जयपुर (राज.) मो. : 99828-44044



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