

# **NARAYANA CORRESPONDENCE COURSES**

**COMMON PRACTICE TEST SCHEDULE FOR XI-IC STU/PASS & ALSO KNOW YOUR RANK WITH OUR CLASSROOM STUDENTS**

<b>Sl.No</b>	<b>DATE's</b>	<b>SYLLABUS WEIGHTAGE</b>
<b>1</b>	<b>CPT - 1</b>	100% Current week
<b>2</b>	<b>CPT - 2</b>	50% Current week; 50% previous week
<b>3</b>	<b>CPT - 3</b>	20% syllabus from current week 50% syllabus from previous week 30% syllabus from previous to previous week
<b>4</b>	<b>CPT - 4</b>	20% syllabus from current week 50% syllabus from previous week 30% syllabus from previous to previous week
<b>5</b>	<b>CPT - 5</b>	20% syllabus from current week 50% syllabus from previous week 30% syllabus from previous to previous week
<b>6</b>	<b>CPT - 6 to CPT - 26</b>	20% syllabus from current week 50% syllabus from previous week 30% syllabus from previous to previous week

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S.No	Opening Day	Physics	Chemistry	Mathematics
1.	<b>CPT-1</b> 16-06-11	Vectors Elementary	Basic chemistry, Mole concept, Limiting reagent. Oxidation number, Balancing of Redox Reaction.	Wavy curve method, Modulus and its applications. Logarithm, Determinants evaluation, slopes of the straight line.
2.	<b>CPT-2</b> 23-06-11	Differentiation and its application (basic idea) to calculate maximum / minimum value.	Molarity, Normality, Acid-base titration.	Function, LCD (elementary)
3.	<b>CPT-3</b> 30-06-11	Integration, Units and Dimensions	Rutherford model of atom, Bohr's model of atom, Hydrogen spectrum, Derivation of velocity, radius and energy of hydrogen like atom.	Trigonometric ratios and identities, compound angle.
4.	<b>No CPT</b>	Significant figures, Error Analysis.	De-Broglie's relations, quantum mechanical model of atom, Hiesenberg's uncertainty principle photoelectric effect. Rules for filling electrons	Multiple & sub multiple angles, transformations and conditional trigonometric identities. Sets, Relation and function, limit and derivatives.
5.	<b>CPT-4</b> 13-07-11	Error Analysis, Instruments (Vernier Callipers & Screw Gauge)	Periodic Properties	Trigonometric equations and inequalities.
6.	<b>CPT-5</b> 20-07-11	Motion Parameters: (Distance, displacement, Speed, Velocity, Acceleration)	Concept of bonding, electrovalent bond, Covalent bond, coordinate bond, Singlet bond.	Trigonometric equations of one or more than one variable, In equation.
7.	<b>CPT-6</b> 27-07-11	Motion in 1-d, 2-d, 3-d (constant and variable acceleration)	VBT, Hybridization, VSEPR theory and shapes of molecule.	AP, GP, HP & AGP

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S.No	Opening Day	Physics	Chemistry	Mathematics
8.	CPT-7 11-08-11	Relative Velocity.	Ideal gas laws, Ideal gas equation, Dalton's law, Graham's law.	Properties and nature of roots of quadratic equations, Condition of two roots/one root common of two quadratic equations. Quadratic expression, maximum and minimum value of quadratic function,
9.	CPT-8 18-08-11	Kinematics of circular motion, Force Translational equilibrium.	Kinetic theory of gases, Vanderwaal's equation of state, Compressibility Factor	Sign of the quadratic expression. Location of roots, properties of roots of cubic and biquadratic equations.
10.	Cpt-9 25 -8-11	Newton's laws of motion, Pulley mass system and constrained motion.	Thermodynamics and First law of thermodynamics, $\Delta U$ , $\Delta H$ , $W$ in different process.	Distance formula, Section formula, Area of the triangle, Slope, Different form of straight line, Angle between straight lines.
11.	CPT-10 07-09-11	Friction in more than one body problems, Dynamics of circular motion (including banking).	Different types of reactions, Enthalpies, Bond Energy, Hoss Law Resonance Energy.	Locus, pair of straight lines (only angle between lines & principle of homogenization). Linear inequalities.
12.	Phase Test 1 14-09-11	<b>PREPARATORY LEAVE FOR PHASE TEST 1</b>		
13.	CPT-11 22-09-11	Work done by constant and variable force, Energy.	Redox titration, back titration, double titration.	<b>Circles:</b> Equation of circle in different forms, tangent at a point, length of tangent, Equations of normal.

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S.No	Opening Day	Physics	Chemistry	Mathematics
14.	CPT-12 29-09-11	Work energy theorem, Power, stable and unstable equilibrium.	Reaction rate (preliminary concept), Chemical equilibrium, relation between $K_p$ and $K_c$ , Degree of dissociation	Pair of tangents, Chord of contact, Chord bisected at a given point, intersection of two circles. Radical axis and radical center
15.	CPT-13 12-10-11	Conservation of linear momentum, Collisions	Concept of acid base, Arrhenius theory, Bronsted theory, Lewis theory, Strength comparison (except organic acids and bases)	<b>Parabola:</b> Standard equation (different forms) equation of tangent and normal, condition for tangent and normal
16.	CPT-14 19-10-11	Rotational kinematics, moment of inertia, Torque	Dissociation equilibria of monoprotic weak acid, mono acidic weak base, Ostwald's dilution law, $pH$ , $pOH$ , $pK_w$ etc.	Properties of the parabola (based on tangent and normal), problem based on locus
17.	CPT-15 26-10-11	Dynamics of rigid body, conservation of angular momentum	Dissociation equilibria of diprotic weak acids and bases, Salt hydrolysis	<b>Ellipse:</b> Standard equation (different forms) equation tangent and normal, condition for tangent and normal
18.	CPT-16 17-11-11	Rolling Motion Gravitation field	Solubility product	<b>Hyperbola:</b> Standard equation (different forms) equation of tangent and normal, condition for tangent and normal and properties of Hyperbola
19.	CPT-17 24-11-11	Gravitation Potential, Motion in circular orbits, Kepler's laws	S block elements, I A group and II A group.	Rectangular hyperbola, problem based on locus, <b>Mathematical Reasoning statistics.</b>

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S.No	Opening Day	Physics	Chemistry	Mathematics
20.	CPT-18 14-12-11	Fluid dynamics and elasticity	IV group, H <sub>2</sub> , H <sub>2</sub> O <sub>2</sub>	Concept of rotation, n <sup>th</sup> roots of unity and its application
21.	CPT-19 20-12-11	Surface tension & Viscosity	Basic organic chemistry, Homolytic and heterolytic bond fission and factors affecting them, inductive effect, electrometric effect, Hyper conjugation	Geometrical application of complex numbers, <b>Introduction to 3D.</b>
22.	Phase Test-2 27-12-11	<b>PREPARATORY LEAVE FOR PHASE TEST TO</b>		
23.	CPT-20 05-01-11	Calorimetry, expansions	Resonance & its application, Reaction intermediate <b>excluding</b> Acidity of phenols, Carboxylic acid. Basicity of Amines to be done in respective chapter in class 12 <sup>th</sup> .	Binomial theorem (general term, middle term, greatest term)
24.	CPT-21 12-01-11	Specific heat of gases, first law of thermodynamics & Processes	Isomerism (Structural & Geometrical)	Basic problems on Multinomial theorem Problems based on binomial coefficients.
25.	CPT-22 26-01-11	Radiation	Aromaticity	Selection from identical and different things, number of divisors of a number and their sum, Division and Distribution in groups.
26.	CPT-23 02-02-12	Linear shm (kinematics, dynamics)	EAS	Generating functions and its application, inclusion –exclusion principle, Bijection principle, Derrangement, Probability.

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S.No	Opening Day	Physics	Chemistry	Mathematics
27.	<b>CPT-24</b> 09-02-12	Angular SHM, Combination of SHM	Alkanes – Preparations and reactions	Inverse trigonometric functions (Basic Properties)
28.	<b>CPT-25</b> 16-02-12	Wave equation , Speed of transverse wave and its intensity Speed of sound wave and its equation	Alkenes – Preparations & Reaction (basic concept of E-1, E-2, E-1CB reactions) Hoffman elimination.	Inverse trigonometric functions (Summation)
29.	<b>Cpt-26</b> 30-02-12	Doppler Effect	Preparation and properties of Alkynes & Revision of hydrocarbon.	Properties and solution of triangle: Incentre, Centroid, Ortho center, Excentre, Circumcentre.
30.	<b>Phase test 3</b> 05-03-12	<b>Preparatory Leave for PHASE TEST 3</b>		

**NOTE: If any Changes of examination we will inform you.**