

STUDY MATERIAL		Test No.	Test Date	NURTURE TEST SERIES / JOINT PACKAGE			LEADER TEST SERIES / JOINT PACKAGE		
PHYSICS				PHYSICS	CHEMISTRY	MATHEMATICS	PHYSICS	CHEMISTRY	MATHEMATICS
Unit No.	Topic								
01	Basic mathematics used in physics, Vectors, Unit & Dimensions; Kinematics.	01	24 - 07 - 2011	Basic Mathematics used in Physics, Vectors, Unit & Dimensions.	Mole Concept	Logarithms, Trigonometric Ratios and Identities	Basic mathematics used in Physics, Vectors, Unit & Dimensions; Kinematics.	Mole Concept and Atomic Structure	Logarithms, Quadratic Equations, Trigonometric Ratios and Identities
02	Laws of motion and Friction, Work, Energy & Power.	02	07 - 08 - 2011	Kinematics.	Atomic Structure	Quadratic Equations	Laws of motion and Friction, Work, Energy & Power.	Periodic Properties & Chemical Bonding	Matrices & Determinants and Trigonometric Equations
03	Centre of Mass & Collisions and Rotational Motion.								
04	Gravitation and Fluid Mechanics.								
05	Thermal Physics.	03	21 - 08 - 2011	Laws of Motion and Friction.	Periodic Properties	Solution of Triangles, Trigonometric Equations	Centre of Mass & Collisions and Rotational Motion.	State of Matter (Gaseous State), Redox & Equivalent Concept	Functions and Inverse Trigonometric Function
06	SHM and Wave Motion.								
07	Electrostatics; Capacitors.								
08	Current electricity.	04	04 - 09 - 2011	Work, Energy & Power.	Chemical Bonding	Functions, Limits	Gravitation and Fluid Mechanics.	s & p-Block Elements	Differential Calculus (Limit, Continuity, Differentiability, Differentiation)
09	Magnetic effect of current and Magnetism.								
10	Electromagnetic Induction (EMI), Alternating current (AC).								
11	Ray optics and optical Instruments, Wave optics (Nature of Light & Interference).	05	18 - 09 - 2011	Syllabus of Test # 1,2,3,4	Syllabus of Test # 1,2,3,4	Syllabus of Test # 1,2,3,4	Syllabus of Test # 1,2,3,4	Syllabus of Test # 1,2,3,4	Syllabus of Test # 1,2,3,4
12	Atomic and Nuclear Physics; Practical Physics.								
CHEMISTRY									
01	Mole Concept and Atomic Structure	06	02 - 10 - 2011	Centre of Mass & Collisions.	State of Matter (Gaseous state), Redox & Equivalent Concept	Point and Straight Line	Thermal Physics.	Organic Nomenclature & Basic Principles-Isomerism, GOC	Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal)
02	Periodic Properties & Chemical Bonding								
03	State of Matter (Gaseous State), Redox & Equivalent Concept								
04	s & p-Block Elements	07	16 - 10 - 2011	Rotational Motion.	s & p-Block Elements	Circle	SHM and Wave Motion.	Chemical Thermodynamics & Thermochemistry	Indefinite & Definite integration
05	Organic Nomenclature & Basic Principles-Isomerism, GOC								
06	Chemical Thermodynamics & Thermochemistry								
07	Chemical Equilibrium, Ionic Equilibrium, Acid-Base Theory	08	30 - 10 - 2011	Gravitation.	Organic Nomenclature & Basic Principles-Isomerism and Practical organic Chemistry	Parabola	Electrostatics; Capacitors.	Chemical Equilibrium, Ionic Equilibrium, Acid-Base Theory	Area under the curve and Differential Equations
08	Chemical Kinetics, Nuclear Chemistry, Electrochemistry and Solution								
09	Transition Element and Metallurgy								
10	Alkane, Alkene, Alkyne, Aromatic Hydrocarbon	09	13 - 11 - 2011	Fluid Mechanics.	General organic Chemistry (GOC)	Permutation & Combination and Binomial Theorem	Current electricity.	Chemical Kinetics, Nuclear Chemistry, Electrochemistry and Solution	Point, Straight Line & Circle
11	Organic Compound Containing Halogen, Oxygen and Nitrogen								
12	Solid State, Surface Chemistry, Carbohydrates, Amino Acids & Peptides, Practical Organic Chemistry, Principles of Qualitative Analysis								
MATHEMATICS		11	11 - 12 - 2011	Thermal Physics - I (Thermal Expansion, Calorimetry & Heat Transfer) .	Chemical Thermodynamics & Thermochemistry	Complex Numbers	Magnetic effect of current and Magnetism.	Transition Element and Metallurgy	Parabola, Ellipse & Hyperbola
01	Logarithms, Quadratic Equations, Trigonometric Ratios and Identities								
02	Matrices & Determinants and Trigonometric Equations								
03	Functions and Inverse Trigonometric Function	12	25 - 12 - 2011	Thermal Physics - II (KTG & Thermodynamics).	Chemical Equilibrium, Ionic Equilibrium, Acid-Base Theory	Ellipse & Hyperbola and Three Dimensional Geometry (Elementary)	Electromagnetic Induction (EMI), Alternating current (AC).	Alkane, Alkene, Alkyne, Aromatic Hydrocarbon	Vectors and Three Dimensional geometry, Solution of Triangles
04	Differential Calculus (Limit, Continuity, Differentiability, Differentiation)								
05	Solution of Triangles, Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal)								
06	Indefinite & Definite integration	13	08 - 01 - 2012	SHM.	Alkane & Alkene	Probability	Ray optics and optical Instruments, Wave optics (Nature of Light & Interference).	Organic Compound Containing Halogen, Oxygen and Nitrogen	Binomial Theorem and Complex Numbers, Sequences and Series
07	Point, Straight Line & Circle								
08	Area under the curve and Differential Equations								
09	Parabola, Ellipse & Hyperbola	14	22 - 01 - 2012	Wave Motion.	Alkyne, Aromatic Hydrocarbon	Sequences and Series	Atomic and Nuclear Physics; Practical Physics.	Solid State, Surface Chemistry, Carbohydrates, Amino Acids & Peptides, Practical Organic Chemistry, Principles of Qualitative Analysis	Permutation & Combination and Probability
10	Vectors and Three Dimensional geometry								
11	Binomial Theorem and Complex Numbers								
12	Permutation & Combination and Probability	15	05 - 02 - 2012	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14

NOTE (Only for Joint Package Students) : Test Sequence may not coincide with the sequence of topic in which Study Material is delivered, however best efforts are done to deliver the study material prior to the test day for any particular topic.

Special Note : There will be Two Question Papers in Minor Test No.05, 10 & 15 [Paper-1 : 8:00 AM to 11:00 AM, Paper-2 : 12:00 PM to 03:00 PM]

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PHYSICS				PHYSICS	CHEMISTRY	MATHEMATICS	PHYSICS	CHEMISTRY	MATHEMATICS
Unit No.	Topic								
01	Basic mathematics used in physics, Vectors, Units, Dimensions and Measurement; Kinematics.	01	24 - 07 - 2011	Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement.	Mole Concept	Quadratic Equations	Basic mathematics used in physics, Vectors, Units, Dimensions and Measurement; Kinematics.	Mole Concept and Atomic Structure	Quadratic Equations, Sequences and Series
02	Laws of motion and Friction, Work, Energy & Power.	02	07 - 08 - 2011	Kinematics.	Atomic Structure	Sequences and Series	Laws of motion and Friction, Work, Energy & Power.	Periodic Properties & Chemical Bonding	Matrices & Determinants, Set, Relation
03	Centre of Mass & Collisions and Rotational Motion.								
04	Gravitation and Fluid Mechanics.								
05	Thermal Physics (K. T. G., Thermodynamics & Heat Transfer).								
06	SHM and Wave Motion.	03	21 - 08 - 2011	Laws of Motion and Friction.	Periodic Properties	Trigonometric Ratios and Identities	Centre of Mass & Collisions and Rotational Motion.	State of Matter (Gaseous State & Solid State), Redox & Equivalent Concept	Functions, Limit & Continuity
07	Electrostatics; Capacitors.								
08	Current electricity.								
09	Magnetic effect of current and Magnetism.	04	04 - 09 - 2011	Work, Energy & Power.	Chemical Bonding	Trigonometric Equations	Gravitation and Fluid Mechanics.	s & p-Block Elements; Hydrogen	Differential Calculus (Differentiability, Differentiation, Maxima & Minima, Monotonicity, Tangent & Normal)
10	Electromagnetic Induction (EMI), EM Waves, Alternating current.								
11	Ray optics and optical Instruments, Wave optics (Nature of Light & Interference).								
12	Modern Physics and Nuclear Physics; Practical Physics, Electronics and Principle of Communication.								
CHEMISTRY									
Unit No.	Topic								
01	Mole Concept and Atomic Structure	06	02 - 10 - 2011	Centre of Mass & Collisions.	State of Matter (Gaseous state), Redox & Equivalent Concept	Point and Straight Line	Thermal Physics (K. T. G., Thermodynamics & Heat Transfer).	Organic Nomenclature & Basic Principles-Isomerism, GOC	Trigonometry, Binomial Theorem and Principle of Mathematical Induction
02	Periodic Properties & Chemical Bonding								
03	State of Matter (Gaseous State & Solid State) Redox & Equivalent Concept								
04	s & p-Block Elements; Hydrogen								
05	Organic Nomenclature & Basic Principles-Isomerism, GOC	07	16- 10 - 2011	Rotational Motion.	s & p-Block Elements (Boron & Carbon Family)	Circle	SHM and Wave Motion.	Chemical Thermodynamics	Indefinite & Definite integration
06	Chemical Thermodynamics								
07	Chemical Equilibrium, Ionic Equilibrium, Acid-Base Theory								
08	Chemical Kinetics, Electrochemistry and Solution	08	30 - 10 - 2011	Gravitation.	Organic Nomenclature & Basic Principles-Isomerism and Practical organic Chemistry	Parabola, Ellipse & Hyperbola	Electrostatics; Capacitors.	Chemical Equilibrium, Ionic Equilibrium, Acid-Base Theory	Point, Straight Line & Circle
09	Transition Element and Metallurgy								
10	Alkane, Alkene, Alkyne, Aromatic Hydrocarbon								
11	Organic Compound Containing Halogen, Oxygen and Nitrogen, Polymers								
12	Surface Chemistry, Purification and characterisation of organic compounds, Biomolecules, Chemistry in Everyday Life and Principles related to practical chemistry.	09	13 - 11 - 2011	Fluid Mechanics.	General organic Chemistry (GOC)	Binomial Theorem and Principle of Mathematical Induction	Current electricity.	Chemical Kinetics, Electrochemistry and Solution	Parabola, Ellipse & Hyperbola
01	Quadratic Equations, Sequences and Series								
02	Matrices & Determinants, Set, Relation								
03	Functions, Limit & Continuity	10	27 -11 - 2011	Syllabus of Test # 6,7,8,9	Syllabus of Test # 6,7,8,9	Syllabus of Test # 6,7,8,9	Syllabus of Test # 6,7,8,9	Syllabus of Test # 6,7,8,9	Syllabus of Test # 6,7,8,9
04	Differential Calculus (Differentiability, Differentiation, Maxima & Minima, Monotonicity, Tangent & Normal)								
05	Trigonometry, Binomial Theorem and Principle of Mathematical Induction								
06	Indefinite & Definite integration								
07	Point, Straight Line & Circle	11	11 - 12 - 2011	Thermal Physics - I (Thermal Expansion, Calorimetry & Heat Transfer).	Chemical Thermodynamics & Thermochemistry	Complex Numbers	Magnetic effect of current and Magnetism.	Transition Element and Metallurgy	Area under the curve and Differential Equations
08	Parabola, Ellipse & Hyperbola								
09	Area under the curve and Differential Equations								
10	Vectors and Three Dimensional geometry	12	25 - 12 - 2011	Thermal Physics - II (KTG & Thermodynamics).	Chemical Equilibrium, Ionic Equilibrium, Acid-Base Theory	Three Dimensional Geometry, Mathematical Reasoning, Statistics	Electromagnetic Induction (EMI), EM Waves, Alternating current .	Alkane, Alkene, Alkyne, Aromatic Hydrocarbon	Vectors and Three Dimensional geometry
11	Complex Numbers, Mathematical Reasoning, Statistics								
12	Permutation & Combination and Probability								
01	Quadratic Equations, Sequences and Series								
02	Matrices & Determinants, Set, Relation	13	08 - 01 - 2012	SHM.	Alkane & Alkene	Permutation & Combination and Probability	Ray optics and optical Instruments, Wave optics (Nature of Light & Interference).	Organic Compound Containing Halogen, Oxygen and Nitrogen, Polymers	Complex Numbers, Mathematical Reasoning, Statistics
03	Functions, Limit & Continuity								
04	Differential Calculus (Differentiability, Differentiation, Maxima & Minima, Monotonicity, Tangent & Normal)								
05	Trigonometry, Binomial Theorem and Principle of Mathematical Induction	14	22 - 01 - 2012	Wave Motion.	Alkyne, Aromatic Hydrocarbon	Functions, Limits & Differentiation	Modern Physics and Nuclear Physics; Practical Physics, Electronics and Principle of Communication.	Surface Chemistry, Purification and characterisation of organic compounds, Biomolecules, Chemistry in Everyday Life and Principles related to practical chemistry.	Permutation & Combination and Probability
06	Indefinite & Definite integration								
07	Point, Straight Line & Circle								
08	Parabola, Ellipse & Hyperbola								
09	Area under the curve and Differential Equations	15	05 - 02 - 2012	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14	Syllabus of Test # 11,12,13,14
10	Vectors and Three Dimensional geometry								
11	Complex Numbers, Mathematical Reasoning, Statistics								
12	Permutation & Combination and Probability								

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