

[For both English/Hindi Medium Students]

## PHYSICS

### Test No. Topic Covered

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|----|--|
| 01 | Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement, Electrostatics  |
| 02 | Kinematics, Current electricity  |
| 03 | Laws of Motion and Friction, Capacitors  |
| 04 | Work, Energy & Power, Magnetic effect of current, Magnetism and Matter*  |
| 05 | Centre of Mass & Collisions, Electromagnetic Induction (EMI)   |
| 06 | Rotational Motion, Alternating current (AC)  |
| 07 | Syllabus of Test # 1, 2, 3, 4, 5 & 6   |
| 08 | Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Ray optics and optical Instruments                                |
| 09 | Properties of matter and Fluid Mechanics, Gravitation, Wave optics (Nature of Light, Interference, Diffraction* & Polarisation*), Electromagnetic Waves* |
| 10 | Simple Harmonic Motion, Modern Physics   |
| 11 | Waves (String & Sound waves), Practical Physics, Electronics and Communication systems*  |
| 12 | Syllabus of Test # 8, 9, 10 & 11   |
| 13 | Full Syllabus  |
| 14 | Full Syllabus  |

## CHEMISTRY

### Test No. Topic Covered

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|----|--|
| 01 | Mole Concept, Atomic structure, Organic nomenclature, Basic principles of practical organic chemistry.                 |
| 02 | Periodic properties, Basic inorganic nomenclature, Chemical thermodynamics & Thermochemistry                           |
| 03 | GOC (complete)   |
| 04 | Chemical Bonding, Solid state, Chemical kinetics   |
| 05 | Isomerism, Chemical Equilibrium, State of matter (gaseous state), Redox & equivalent concept                           |
| 06 | Ionic Equilibrium, Acid Base theory, Nuclear chemistry, Reaction intermediate.   |
| 07 | Syllabus of Test # 1, 2, 3, 4, 5 & 6   |
| 08 | Co-ordination compound, s-block elements & hydrogen, Boron & Carbon family.  |
| 09 | Haloalkane, Aryl Halide (Substitution & Elimination), Electrochemistry & Solution, Ores & Metallurgy.                  |
| 10 | Alkane, Alkenes & Alkynes, Aromatic hydrocarbon, Organic compounds containing oxygen & nitrogen, Qualitative analysis. |

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| 11 | Biomolecules (Carbohydrates, Amino Acid, Proteins), Polymer, Practical organic chemistry (Identification of elements & functional groups), Chemistry in everyday life, Environmental chemistry, Surface chemistry, d & f block element, p-block (nitrogen, oxygen, fluorine & noble gas) family. |
| 12 | Syllabus of Test # 8, 9, 10 & 11   |
| 13 | Full Syllabus  |
| 14 | Full Syllabus  |

## MATHEMATICS

### Test No. Topic Covered

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|----|---|
| 01 | **Logarithms, Trigonometric Ratios and Identities, Matrices & Determinants  |
| 02 | Quadratic Equations & *Linear Inequalities, Functions and Inverse Trigonometric Function  |
| 03 | Trigonometric Equations, **Solution of Triangles, *Height and Distance, Differential Calculus (Limit, Continuity, Differentiability, Differentiation) |
| 04 | Point and Straight Line, Indefinite integration   |
| 05 | Circle, Definite integration  |
| 06 | Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal)  |
| 07 | Syllabus of Test # 1, 2, 3, 4, 5 & 6  |
| 08 | Permutation & Combination and Binomial Theorem, Vectors   |
| 09 | Complex Numbers, *Principle of Mathematical Induction, Three Dimensional geometry,  |
| 10 | Parabola, Ellipse & Hyperbola, Area under the curve and Differential Equations  |
| 11 | *[Sets, Relation, Statistics, Mathematical Reasoning], Probability  |
| 12 | Syllabus of Test # 8, 9, 10 & 11  |
| 13 | Full Syllabus   |
| 14 | Full Syllabus   |

\*MARKED TOPIC / TOPICS ARE ONLY IN JEE -MAIN SYLLABUS,  
\*\*MARKED TOPIC / TOPICS ARE ONLY IN JEE-ADVANCED SYLLABUS

## JEE (Advanced) Result 2017



# AIR-9

**Rachit Bansal**  
(Classroom)