

# PACE-IIT & MEDICAL

MUMBAI / NASHIK / AKOLA / DELHI / GHAZIABAD / KOLKATA / GOA / BOKARO / JALGAON / PUNE / AMRAVATI / DUBAI

## IIT-JEE: 2021 ASPIRANTS: MAJOR TEST # 6 (MAIN)

**Examination Day & Date** : **Saturday, 31st October, 2020**  
**Timing** : **Paper 1 : 3:00 pm - 6:00 pm**  
**Test Mode** : **ONLINE**

### SYLLABUS

SUBJECTS	TOPICS
<b>PHYSICS</b>	Vectors, Calculus for Physics, Unit & Dimension, Errors & Measurements, Kinematics - I & II, Laws of Motion & Friction, Circular Motion, Work, Power & Energy, Centre of Mass & Collisions, Rotational Dynamics, Simple Harmonic Motion, Heat & Thermodynamics, Fluid Mechanics, Properties of Matter, Gravitation, Electrostatics & Capacitors, Current Electricity, Magnetism, EMI Alternative Currents, Ray Optics, Wave Optic.
<b>CHEMISTRY</b>	Atomic Structure, Mole Concept, Periodic Table, Gaseous State, Chemical Bonding, IUPAC Nomenclature, Energetic, GOC, Chemical & Ionic Equilibrium, Volumetric Analysis, Chemical Kinetics, Electrochemistry, Isomerism, Reaction Mechanism, GIC & Co-ordination Compound, Hydrocarbon, Aromatic Hydrocarbons, Aryl Alkyl Halide, S-block & P-block Elements, Alcohol, Phenol, Ether, Salt Analysis, Metallurgy, D & F- Block Elements, Aldehyde & Ketones, Carboxylic Acid & Amines, Solid State
<b>MATHEMATICS</b>	Trigonometric Ratio & Identities, Trigonometric Equation, Quadratic Equation, Inequations, Logarithms, Sequence & Series, Binomial Theorem, Permutation & Combination, Probability, Straight Lines, Circle, Parabola, Ellipse, Hyperbola, Functions, Limits, Continuity & Differentiability, Method of Differentiation, Indefinite & Definite Integration, Differential Equation, AUC, AOD, Complex Numbers, Determinants & Matrices, Solution of Triangle

CENTERS: MUMBAI / DELHI / AKOLA / LUCKNOW / NASHIK / PUNE / NAGPUR / BOKARO / DUBAI

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## IIT-JEE: 2021 ASPIRANTS: MAJOR TEST # 6 (ADVANCED)

**Examination Day & Date** : **Sunday, 1st November, 2020**  
**Timing** : **Paper 1 : 9:00 am - 12.00 pm**  
**Paper 2 : 1:00 pm - 4:00 pm**  
**Test Mode** : **ONLINE**

### SYLLABUS

SUBJECTS	TOPICS
<b>PHYSICS</b>	Vectors, Calculus for Physics, Unit & Dimension, Errors & Measurements, Kinematics - I & II, Laws of Motion & Friction, Circular Motion, Work, Power & Energy, Centre of Mass & Collisions, Rotational Dynamics, Simple Harmonic Motion, Heat & Thermodynamics, Fluid Mechanics, Properties of Matter, Gravitation, Electrostatics & Capacitors, Current Electricity, Magnetism, EMI Alternative Currents, Ray Optics, Wave Optics.
<b>CHEMISTRY</b>	Atomic Structure, Mole Concept, Periodic Table, Gaseous State, Chemical Bonding, IUPAC Nomenclature, Energetic, GOC, Chemical & Ionic Equilibrium, Volumetric Analysis, Chemical Kinetics, Electrochemistry, Isomerism, Reaction Mechanism, GIC & Co-ordination Compound, Hydrocarbon, Aromatic Hydrocarbons, Aryl Alkyl Halide, S-block & P-block Elements, Alcohol, Phenol, Ether, Salt Analysis, Metallurgy, D & F- Block Elements, Aldehyde & Ketones, Carboxylic Acid & Amines, Solid State
<b>MATHEMATICS</b>	Trigonometric Ratio & Identities, Trigonometric Equation, Quadratic Equation, Inequations, Logarithms, Sequence & Series, Binomial Theorem, Permutation & Combination, Probability, Straight Lines, Circle, Parabola, Ellipse, Hyperbola, Functions, Limits, Continuity & Differentiability, Method of Differentiation, Indefinite & Definite Integration, Differential Equation, AUC, AOD, Complex Numbers, Determinants & Matrices, Solution of Triangle

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