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UBTER JEEP Syllabus – Topics

Physics

- Gravitation
- Properties of Bulk Matter
- Work, Energy & Power
- Motion of System of particles & Rigid Body
- Practical Oriented questions
- Thermodynamics
- Behavior of Perfect Gas & Kinetic Theory of gases
- Oscillations & Waves
- Physical World & Measurement
- Kinematics
- Laws of Motion

Chemistry

- Redox Reactions
- Hydrogen
- S-Block Elements
- Some p-Block Elements
- Organic Chemistry: some basic Principles and Techniques
- Hydrocarbons
- Environmental Chemistry
- Some Basic Concepts of Chemistry
- Structure of Atom

- Classification of Elements and Periodicity in Properties
- Chemical Bonding and Molecular Structure
- States of Matter: Gases and Liquids
- Thermodynamics
- Equilibrium
- Practical Oriented Questions

Mathematics

- Binomial Theorem
- Sequence and Series
- Conic Section
- Introduction to Three-Dimensional Geometry
- Principle of Mathematical Induction
- Complex Numbers and Quadratic Equations
- Linear Inequalities
- Permutations and Combinations
- Straight Lines
- Limits and Derivatives
- Matrices
- Determinants
- Continuity and Differentiability
- Applications of Derivatives
- Integrals
- Applications of the Integrals
- Differential Equations
- Vectors
- Three Dimensional Geometry
- Probability

- Definition of proposition and problems, Logical connectives, compound proposition, problems, Quantifiers, negation, consequences of implication-contrapositive and converse, problems, proving a statement by the method of contradiction by giving the counterexample
- Statistics
- Probability
- Relations and Functions
- Inverse Trigonometric Functions

Biology

- Diversity in the living world
- Reproduction
- Cell structure and function
- Genetics and evolution
- Plant physiology
- Biology in human welfare
- Human physiology
- Biotechnology and ecology

Aptitude

- Areas
- Time and Distance
- Problems on Trains
- Odd Man Out
- Numbers and Ages
- Pipes and Cisterns
- Time and Work Partnership
- Ratio and Proportion

- Simple Interest
- Probability
- Averages
- Problems on L.C.M and H.C.F
- Problems on Numbers
- Compound Interest
- Volumes
- Profit and Loss
- Races and Games
- Mixtures and Allegations
- Boats and Streams
- Simple Equations
- Quadratic Equations
- Indices and Surds
- Mensuration
- Percentages
- Permutations and Combinations
- Simplification and Approximation

Reasoning

- Puzzles
- Verbal Reasoning
- Logical Reasoning
- Data Sufficiency
- Non-Verbal Reasoning
- Data Interpretation
- Analytical Reasoning

English

- Substitution
- Synonyms
- Antonyms
- Sentence Completion
- Prepositions
- Transformation
- Active and Passive Voice
- Spotting Errors
- Passage Completion
- Sentence Arrangement
- Idioms and Phrases
- Sentence Improvement
- Para Completion
- Spelling Test
- Joining Sentences
- Fill in the blanks
- Error Correction (Phrase in Bold)
- Error Correction (Underlined Part)

GK

- History, Culture, Traditions & Festivals
- Sports
- Basic GK
- Inventions in the World
- Indian Politics
- Indian Culture
- Basic Computer

- Physics
- Indian History
- Indian Economy
- Botany
- Famous Days & Dates
- Famous Books & Authors
- Indian Parliament
- Chemistry
- Geography
- Zoology
- Environment

General Awareness

- Inventions and Discoveries
- Sports
- Indian History
- Indian Parliament
- Famous Days & Dates
- Famous Books & Authors
- Indian Politics
- Indian Economy
- General Science
- Current Affairs
- Rivers, Lakes and Seas
- Famous Places in India
- Tourism
- Countries and Capitals
- Artists
- Culture