SYLLABUS OF IMUCET

IMUmate

Total Marks: 200
Correct Answer: +1
Wrong Answer: -0.25

Duration: 3hrs
Scientific Calculator
is allowed in exam

ENGLISH [40]

- Parts of Speech
- Word/Phrase Meanings
- Antonym & Synonym
- Active/Passive Voice
- Tenses
- Idioms
- Phrasal Verbs
- One word Substitution
- Fill in the blanks with prepositions

CHEMISTRY [20]

- Chemical Bonding and Molecular Structure
- Thermodynamics
- Organic Chemistry: Nomenclature and Named Reaction
- Electrochemistry
- Solutions
- General Principle and Process of Isolation of Elements
- State of Matter
- Chemistry in everyday life
- Chemical Kinetics
- Chemical Equilibrium

APTITUDE & GK [40]

- Logical Reasoning
- Critical Reasoning
- Arithmetic Reasoning
- Structural Analysis
- Instruction Based Questions
- Completion of Number/Pattern Series
- Odd One Out
- Data Sufficiency and Interpretation
- Coding Decoding
- Blood Relation
- Pipes and Cisterns
- Boat and Streams
- Numerical Computation and Estimation
- Sitting Arrangement
- Calendar
- Clocks
- Stocks
- Time & Work
- Time & Distance
- Height & Distance
- Ratio & Proportion
- Profit & Loss
- Percentage
- Simple and Compound Interest
- Error Finding

GENERAL KNOWLEDGE:

- Geography
- Current Affairs(National & International)
- Shipping Related News
- Ministers, Maritime Days,
- Significance of States of India
- Significance of Rivers, Dams, Seas, Oceans, Canals, Lakes etc...

PHYSICS [50]

- Kinematics
- Newton's Laws of Motion
- Thermodynamics
- Oscillations
- Simple Harmonic Motion
- Work, Energy & Power
- Electric Charges & Fields
- Electrostatic Potential & Capacitance
- Current Electricity
- Magnetic Effect of Current and Magnetism
- Electromagnetic Induction
- Alternating Current
- Ray Optics
- Wave Optics
- Atoms
- Nuclei
- Dual Nature of Radiation & Matter
- Semiconductor
- Motion in a Straight Line
- Motion in a Plane

MATHEMATICS [50]

- Complex Numbers & Quadratic Equation
- Straight Lines
- Conic Section & Circles
- 3-D Geometry
- Sets
- Trigonometric Functions
- Probability
- Relation & Function
- Matrices & Determinant
- Limits & Derivatives
- Continuity & Differentiability
- Application of Derivatives
- Integrals
- Application of integrals
- Vector Algebra
- Arithmetic Progression
- Geometric Progression
- Permutation & Combination
- Statistics (*Basic Class 10th*)
- Differential Equations
- Mensuration