Aakash iTutor

Revision Study Planner

for

Repeater Course NEET 2022

(RM Phase-06)

October 2021 - March 2022

Aakash Digital

8800012998

aakashitutor@aesl.in

digital.aakash.ac.in

Aakash + BYJU'S

From Chairman's Desk

A lot has changed at Aakash during the transition from a humble coaching institute to becoming a recognized name in the education field. We live by the notion that the very essence of success is a strong value system. We still believe in the age-old Indian concept of "Guru-Shishya" relationship where a guru shares his knowledge reserve with his pupils and the 'Shishya' strives hard to quench his/her thirst for knowledge.

It has been our endeavour to make Aakash much more than a coaching institute, which is to build it into an institution of repute and purpose. We consider our students the torchbearers of the future of the country and thus, aim to enlighten the future of the nation through this young generation. We dream of a progressing India through the eyes of our students and assist them in accomplishing their dreams with the collective efforts of our faculty & staff members, our students and their parents.

For 34 years, we have been nurturing students and helping them in their endeavour to qualify in various Engineering and Medical entrance exams in the country. This endeavour is actually a journey, which we take along with our students. We wish to feel their emotions, their frustrations, their dreams, their vision, their struggles and their joys. Together we live an experience, which they would remember as one of the most cherished moments in their lives after qualifying the coveted competitive exams.

Even today, we aim at clearing doubts and strengthening the fundamentals of students in their subjects, because we believe these cleared doubts and strengthened fundamentals will eventually strengthen the destiny of our nation, which actually lies in these hands that are holding the 'mighty' pen & are now learning with technology. And we are confident that with Aakash, their future is in safe and progressive hands.

J. C. Chaudhry
Chairman & Managing Director (CMD)

About Aakash iTutor

Recorded Video Lectures on NEET syllabus by master Aakash Faculty help you boost your preparation and perform well in the exam. Learn at your own pace with Video Lectures. Assess yourself by taking the online tests and clear your doubts via 'Ask an Expert'.

Your tools to prepare

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NEET (National Eligibility cum Entrance Test)

From 2019 onwards the National Eligibility cum Entrance Test has been conducted by the National Testing Agency (NTA). NEET (UG) is applicable for admission to MBBS/BDS Courses in India in Medical/Dental Colleges run with the approval of Medical Council of India/Dental Council of India under the Union Ministryof Health and Family Welfare,Government of India.

The responsibility of the NTA is limited to the conduct of the entrance examination, declaration of result and providing All India Rank to the Directorate General Health Services (DGHS), New Delhi, Governmentof India for the conduct of counselling for 15% All India Quota Seats and for supplying the result to state/other Counselling Authorities.

Candidates seeking admission in AFMC for MBBS Course will register online through NEET and they will also have to register at www.afmc.nic.in. The candidates who want to get admission in AFMC MBBS course will have to necessarily appear in NEET entrance examination. After qualifying NEET exam, candidates will have to appear for ToELR computer-based test (CBT) conducted by AFMC authority.

As per the NMC Act, 2019, AIIMS and JIPMER have now be replaced by NEET. Now the candidates need to apply only for NEET to get admission to MBBS courses in AIIMS, New Delhi, JIPMER and all AIIMS like Institutions.

Aakash iTutor

In view of the current situation being faced due to the Novel Coronavirus (COVID-19) outbreak, the safety of our students is our prime concern. We are, thus, taking necessary steps towards ensuring that the studies of our students remain uninterrupted.

In order to avoid any loss of studies, we have shared i-Tutor credentials with you and now we are sharing STUDY PLANNER to streamline the flow of studies. As and when the situation improves, we shall commence classes for the regular classroom course, along with continuing to provide free i-Tutor access.

Follow the STUDY PLANNER and BE AHEAD OF THE PACK.

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Weekly Study Planner

21st Oct. - 24th Oct., 2021

Physics

Chapter 1: Physical World

- 1.1 Physical World ☐

Chapter 2: Units & Measurements

- 2.1 Introduction to Physical Quantities ☐
- 2.2 Methods of Measurement ☐
- 2.3 Error in Measurement ☐

Chemistry

Chapter 1: Some Basic Concepts of Chemistry

- 1.1 Application and Importance of Chemistry ☐
- 1.2 Laws of Chemical Combination ☐
- 1.3 Mole Concept ☐

Botany

Chapter 1: Cell : The Unit of Life

- 1.1 Introduction to Chapter Cell ☐
- 1.2 Eukaryotic Cell Part-1 ☐
- 1.3 Eukaryotic Cell Part-2 ☐

Zoology

Chapter 1: Structural Organisation in Animals

- 1.1 Epithelial Tissue and Its Types ☐
- 1.2 Connective Tissue and Its Types ☐
- 1.3 Muscular and Nervous Tissue ☐

25th Oct. - 31st Oct., 2021

Physics

Chapter 2: Units & Measurements

- 2.4 Significant Figures & Dimensional Analysis ☐
- 2.5 Application of Dimensional Analysis ☐

Chapter 3: Motion in a Straight Line

- 3.1 Motion in a Straight Line ☐
- 3.2 Speed and Velocity ☐
- 3.3 Speed and Velocity Continued ☐
- 3.4 Calculus Continued ☐

Chemistry

Chapter 1: Some Basic Concepts of Chemistry

- 1.4 Law of Chemical Equivalence ☐
- 1.5 Percentage Composition and Empirical Formula ☐
- 1.6 Stoichiometry ☐
- 1.7 Reactions in Solutions ☐

Chapter 2: Structure of Atom

- 2.1 Discovery of Subatomic Particles ☐

Botany

Chapter 1: Cell : The Unit of Life

- 1.4 Eukaryotic Cell Part-3 ☐
- 1.5 Eukaryotic Cell Part-4 ☐
- 1.6 Eukaryotic Cell Part-5 ☐

Chapter 2: Cell Cycle and Cell Division

- 2.1 Introduction to Chapter Cell ☐
- 2.2 Mitosis ☐
- 2.3 Meiosis ☐

Zoology

Chapter 2: Biomolecules

- 2.1 Introduction to Biomolecules ☐
- 2.2 Biomolecules-Proteins ☐
- 2.3 Biomolecules- Lipids ☐
- 2.4 Biomolecules- Nucleic Acid ☐

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Weekly Study Planner

1st Nov. - 7th Nov., 2021

Physics

Chapter 3: Motion in a Straight Line

- 3.5 Complex Integration Numericals ☐
- 3.6 Acceleration ☐
- 3.7 Application of Calculus(Part-A) ☐
- 3.8 Application of Calculus(Part-B) ☐
- 3.9 Kinematics/Equation of Motion ☐
- 3.10 Motion Under Gravity ☐
- 3.11 Galileo's Law of Odd Numbers ☐
- 3.12 Graphs ☐
- 3.13 Variation of Slope ☐
- 3.14 Graphical Analysis of Motion(Part-I) ☐
- 3.15 Graphical Analysis of Motion(Part-II) ☐
- 3.16 Acceleration-Time Graph ☐
- 3.17 Relative Velocity in 1D ☐

Chemistry

Chapter 2: Structure of Atom

- 2.2 Different Models of Atom, Maxwell's Wave Theory and Planck's Quantum Theory ☐
- 2.3 Atomic Spectrum and Dual Nature ☐
- 2.4 Bohr's Model and Dual Nature of Matter ☐
- 2.5 Heisenberg's Uncertainty Principle and Quantum Mechanical Model ☐
- 2.6 Some Important Graphs and Electronic Configuration ☐

Botany

Chapter 3: The Living World

- 3.1 Introduction ☐
- 3.2 Biodiversity ☐
- 3.3 Taxonomic Hierarchy ☐
- 3.4 Taxonomic Aids ☐
- 3.5 Taxonomic Aids(1) ☐

Zoology

Chapter 2: Biomolecules

- 2.5 Biomolecules: Enzymes - I ☐
- 2.6 Biomolecules: Enzymes - II ☐

Chapter 3: Digestion & Absorption

- 3.1 Anatomy of Digestive System- I ☐
- 3.2 Anatomy of Digestive System - II ☐
- 3.3 Physiology of Digestion - I ☐
- 3.4 Physiology of Digestion - II ☐

8th Nov. - 14th Nov., 2021

Physics

Chapter 4: Motion in a Plane

- 4.1 Scalar and Vector ☐
- 4.2 Arithmetics of Vectors: Addition ☐
- 4.3 Arithmetics of Vectors: Subtraction, Resolution of Vector ☐
- 4.4 Numerical Based on Arithmetics of Vectors ☐
- 4.5 Introduction of Motion in Plane, Velocity and Acceleration in 2-D Motion ☐
- 4.6 Projectile Motion: Part A ☐
- 4.7 Projectile Motion: Part B ☐
- 4.8 Projectile Motion: Part C ☐

Chemistry

Chapter 3: Classification of Elements and Periodicity in Properties

- 3.1 Genesis of Classification and Modern Periodic Table ☐
- 3.2 Properties of Elements & Their Variation in Modern Periodic Table ☐

Chapter 4: Chemical Bonding and Molecular Structure

- 4.1 Types of Chemical Bonding ☐
- 4.2 VSEPR Theory and Dipole Moment ☐

Botany

Chapter 4: Biological Classification

- 4.1 Kingdom System of Classification ☐
- 4.2 Monera ☐
- 4.3 Monera(1) ☐
- 4.4 Monera(2) ☐
- 4.5 Eubacteria ☐

Zoology

Chapter 4: Breathing and Exchange of Gases

- 4.1 Breathing and Exchange of Gases ☐
- 4.2 Process of Respiration ☐
- 4.3 Process of Respiration [Contd.] ☐
- 4.4 Mechanism of Regulation ☐

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Weekly Study Planner

15th Nov. - 21st Nov., 2021

Physics

Chapter 4: Motion in a Plane

- 4.9 Projectile Motion as Plane Inclined ☐
- 4.10 Horizontal Projection, Circular Motion ☐
- 4.11 Uniform and Non-uniform Circular Motion, Radius of Curvature ☐
- 4.12 Relative Motion in 2-D Motion: Part-A ☐
- 4.13 Relative Motion in 2-D Motion: Part-B ☐

Chapter 5: Laws of Motion

- 5.1 Introduction to Forces & Laws of Motion ☐
- 5.2 Newton's 3rd Law & Importance ☐
- 5.3 Problem Solving Technique ☐
- 5.4 Pulley & Constraint Motion ☐
- 5.5 Frame of Reference ☐
- 5.6 Friction and Its Type ☐

Chemistry

Chapter 4: Chemical Bonding and Molecular Structure

- 4.3 Resonance and Valence Bond Theory ☐
- 4.4 Hybridisation ☐
- 4.5 Hybridisation in Different Molecules ☐
- 4.6 Molecular Orbital Theory ☐
- 4.7 Molecular Orbital Theory and Hydrogen Bonding ☐

Chapter 5: States of Matter

- 5.1 Intermolecular Forces and Thermal Energy ☐
- 5.2 The Gas Laws ☐
- 5.3 Dalton's Law, Graham's Law and KMTG ☐
- 5.4 Different Type of Velocities and Real Gas Equation ☐
- 5.5 Compressibility Factor and Liquid State ☐

Botany

Chapter 4: Biological Classification

- 4.6 Protista(Photosynthetic Protists) ☐
- 4.7 Protista(Decomposer Protists) ☐
- 4.8 Fungi ☐
- 4.9 Fungi(1) ☐
- 4.10 Fungi(2) ☐
- 4.11 Fungi(3) ☐
- 4.12 Fungi (4) ☐
- 4.13 Viruses, Viroids and Lichens ☐

Zoology

Chapter 5: Body Fluids and Circulation

- 5.1 Body Fluids Part-1 ☐
- 5.2 Body Fluids Part-2 ☐
- 5.3 Circulatory System ☐
- 5.4 Regulation of Cardiac Activity ☐
- 5.5 Circulatory Pathways ☐

22nd Nov. - 28th Nov., 2021

Physics

Chapter 5: Laws of Motion

- 5.7 Multiple Block System ☐
- 5.8 Dynamics of Circular Motion ☐
- 5.9 Variety of Numericals(Mixed Concept) ☐

Chapter 6: Work, Energy & Power

- 6.1 Introduction to Work ☐
- 6.2 Work Done by Variable Forces and Kinetic Friction ☐
- 6.3 Introduction to Energy ☐
- 6.4 Potential Energy and Work Energy Theorem ☐

Chemistry

Chapter 6: Thermodynamics

- 6.1 Important Thermodynamic Terms ☐
- 6.2 Heat Work and Internal Energy ☐
- 6.3 Internal Energy Change and Enthalpy Change ☐
- 6.4 Thermodynamic Reaction and Heat Capacity ☐
- 6.5 Enthalpy Change of a Reaction and Hess Law ☐
- 6.6 Enthalpy Change of Different Type of Reactions ☐
- 6.7 Spontaneity, Entropy and Gibb's Energy ☐
- 6.8 Spontaneity, Entropy and Gibb's Free Energy Continued ☐

Botany

Chapter 5: Morphology of Flowering Plants

- 5.1 The Root ☐
- 5.2 Stem ☐
- 5.3 Leaf ☐
- 5.4 Inflorescence ☐
- 5.5 Flower ☐
- 5.6 Male and Female Reproductive Part, Placentation ☐
- 5.7 Fruits ☐
- 5.8 Seeds ☐

Zoology

Chapter 6: Excretory Products and Their Elimination

- 6.1 Role of Excretion & Regulation of Solutes & Water ☐
- 6.2 Evolution of Vertebrate Kidneys & Human Excretory System ☐
- 6.3 Mechanism of Urine Formation ☐
- 6.4 Regulation of Urine Formation ☐

Weekly Study Planner

29th Nov. - 5th Dec., 2021

Physics

Chapter 6: Work, Energy & Power

- 6.5 Energy Conservation and Power ☐
- 6.6 Motion in a Vertical Circle ☐
- 6.7 Collision(1-Dimensional) ☐
- 6.8 Collision(2-Dimensional) ☐

Chapter 7: Systems of Particles & Rotational Motion

- 7.1 Introduction to Rotational Mechanics ☐
- 7.2 Motion of Centre of Mass ☐
- 7.3 Cross Product and Rotation Variables ☐
- 7.4 Relation Between Linear & Rotational Variables ☐
- 7.5 Angular Momentum & Principle of Moments ☐
- 7.6 Moment of Inertia-I ☐
- 7.7 Moment of Inertia-II ☐
- 7.8 Dynamics of Rotational Motion about Fixed Axis ☐
- 7.9 Combined Translational & Rotational Motion ☐
- 7.10 Rolling Motion ☐

Chemistry

Chapter 7: Equilibrium

- 7.1 Physical Equilibrium ☐
- 7.2 Equilibrium Constant ☐
- 7.3 Significance of Equilibrium Constant ☐
- 7.4 Acids and Bases ☐
- 7.5 Dissociation of Weak Acids, Weak Bases and Water ☐
- 7.6 Hydrolysis of Salt and Buffer Solution ☐
- 7.7 Solubility and Solubility Product ☐

Botany

Chapter 6: Anatomy of Flowering Plants

- 6.1 Tissues ☐
- 6.2 Permanent Tissue ☐
- 6.3 Complex Permanent Tissue ☐
- 6.4 Tissue System & Anatomy ☐
- 6.5 Secondary Growth in Dicot Stem ☐

Zoology

Chapter 7: Locomotion and Movement

- 7.1 Introduction to Locomotion & Movement ☐
- 7.2 Mechanism of Muscle Contraction & Its Types ☐
- 7.3 Human Skeletal System ☐

6th Dec. - 12th Dec., 2021

Physics

Chapter 8: Gravitation

- 8.1 Kepler's Law and Principle of Superposition ☐
- 8.2 Acceleration Due to Gravity ☐
- 8.3 Gravitational Field Intensity and Gravitational Potential Energy ☐
- 8.4 Gravitational Potential & Satellites ☐
- 8.5 Miscellaneous Topics ☐

Chapter 9: Mechanical Properties of Solids

- 9.1 Introduction to Elasticity and Its Parameters ☐
- 9.2 Elastic Potential Energy and Poisson's Ratio ☐

Chemistry

Chapter 8: Redox Reactions

- 8.1 Oxidation and Reduction ☐
- 8.2 Types of Redox Reactions & Balancing of Redox Reactions ☐
- 8.3 Standard Reduction Potential & Electrochemical Series ☐

Chapter 1: The Solid State

- 1.1 Types of Solids and Unit Cells ☐
- 1.2 Different Types of Packing ☐
- 1.3 Ionic Solids, Voids and Radius Ratio ☐
- 1.4 Coordination Number and Density ☐
- 1.5 Defects and Properties ☐

Botany

Chapter 7: Plant Kingdom

- 7.1 Plant Kingdom Introduction ☐
- 7.2 Algae ☐
- 7.3 Algae(1) ☐
- 7.4 Bryophytes ☐
- 7.5 Bryophytes(1) ☐
- 7.6 Pteridophytes ☐
- 7.7 Pteridophytes(1) ☐

Zoology

Chapter 8: Neural Control and Coordination

- 8.1 Neural System ☐
- 8.2 Central Nervous System- I ☐
- 8.3 Central Nervous System - II ☐
- 8.4 Sensory Reception and Processing ☐
- 8.5 Mechanism of Image Formation ☐
- 8.6 Hearing, Gustation and Olfaction ☐

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Weekly Study Planner

13th Dec. - 19th Dec., 2021

Physics

Chapter 10: Mechanical Properties of Fluids

- 10.1 Introduction to Fluid Mechanics ☐
- 10.2 Archimedes Principle and Its Application ☐
- 10.3 Liquids in Non-inertial Frame ☐
- 10.4 Bernoulli's Theorem ☐
- 10.5 Flow of Liquids ☐
- 10.6 Surface Tension & Excess Pressure ☐
- 10.7 Capillary Action & Application ☐

Chapter 11: Thermal Properties of Matter

- 11.1 Thermal Expansion ☐
- 11.2 Heat Capacity of a Body ☐
- 11.3 Phase Change & Modes of Heat Transfer ☐
- 11.4 Convection and Radiation ☐
- 11.5 Newton's Law of Cooling ☐

Chemistry

Chapter 2: Solutions

- 2.1 Types of Solutions and Henry's Law ☐
- 2.2 Raoult's Law ☐
- 2.3 Colligative Properties ☐
- 2.4 Colligative Properties ☐
- 2.5 Van't Hoff's Factor and Abnormal Molecular Masses ☐

Chapter 3: Electrochemistry

- 3.1 Electrolytic Conductance ☐
- 3.2 Electrolysis & Faraday's Laws ☐
- 3.3 Electrochemical Series ☐
- 3.4 Nernst Equation and Its Applications ☐
- 3.5 Cells, Batteries and Composition ☐

Botany

Chapter 7: Plant Kingdom

- 7.8 Pteridophytes(2) ☐
- 7.9 Gymnosperm ☐
- 7.10 Angiosperm ☐

Zoology

Chapter 9: Chemical Coordination and Integration

- 9.1 Endocrine Glands(I) and Hormones ☐
- 9.2 Endocrine Glands(II) and Mechanism of Hormone Action ☐

Chapter 10: Animal Kingdom(Non-chordates)

- 10.1 Kingdom Animalia- Basis of Classification ☐
- 10.2 Phylum Porifera ☐

20th Dec. - 26th Dec., 2021

Physics

Chapter 12: Thermodynamics

- 12.1 Zeroth & First Law of Thermodynamics ☐
- 12.2 Thermodynamic Processes ☐
- 12.3 Thermodynamic Processes(Contd.) ☐
- 12.4 Heat Engine, Refrigerator and Second Law of Thermodynamics ☐

Chapter 13: Kinetic Theory

- 13.1 Kinetic Theory of Gas ☐
- 13.2 Law of Equipartition of Energy and Specific Heat of Gas ☐

Chapter 14: Oscillations

- 14.1 Simple Harmonic Motion ☐
- 14.2 Relation Between Displacement, Velocity & Acceleration of Particle in SHM ☐

Chemistry

Chapter 4: Chemical Kinetics

- 4.1 Rate of Reaction ☐
- 4.2 Factors Affecting Rate of Reaction ☐
- 4.3 Order of Reaction ☐
- 4.4 Order of Reaction ☐
- 4.5 Effect of Temperature on Rate of Reaction ☐

Botany

Chapter 8: Transport in Plants

- 8.1 Means of Transport ☐
- 8.2 Plant Water Relation ☐
- 8.3 Plant Water Relation and Long Distance Transport of Water ☐

Zoology

Chapter 10: Animal Kingdom(Non-chordates)

- 10.3 Phylum Cnidaria ☐
- 10.4 Phylum Ctenophora and Phylum Platyhelminthes ☐
- 10.5 Phylum Aschelminthes ☐
- 10.6 Phylum Annelida ☐

Weekly Study Planner

27th Dec., 2021 - 2nd Jan., 2022

Physics

Chapter 14: Oscillations

- 14.3 Energy in SHM ☐
- 14.4 Oscillation of Spring-block(Non-ideal) System and Simple Pendulum ☐
- 14.5 Damped & Forced Oscillations ☐

Chapter 15: Waves

- 15.1 Introduction to Plane Progressive Harmonic Wave ☐
- 15.2 Particle Velocity, Energy and Intensity of Wave ☐
- 15.3 Longitudinal Wave ☐
- 15.4 Reflection and Transmission of Waves, Stationary Wave ☐
- 15.5 Normal Modes of Vibration in Organ Pipe, Beats ☐
- 15.6 Doppler Effect ☐

Chemistry

Chapter 5: Surface Chemistry

- 5.1 Surface Phenomenon, Adsorption and Absorption ☐
- 5.2 Effect of Temperature and Catalyst on Adsorption ☐
- 5.3 Colloids ☐
- 5.4 Properties and Application of Colloidal Solution ☐

Botany

Chapter 8: Transport in Plants

- 8.4 Mechanism of Water Absorption ☐
- 8.5 Transpiration ☐
- 8.6 Uptake, Transport and Translocation of Mineral Ions and Phloem Transport ☐

Zoology

Chapter 10: Animal Kingdom(Non-chordates)

- 10.7 Phylum Arthropoda ☐
- 10.8 Phylum Mollusca ☐
- 10.9 Phylum Echinodermata and Phylum Hemichordata ☐

3rd Jan. - 9th Jan., 2022

Physics

Chapter 1: Electric Charges & Fields

- 1.1 Electric Charges & Properties of Charges ☐
- 1.2 Coulomb's Law and Its Properties ☐
- 1.3 Applications & Vector Form of Coulomb's Law ☐
- 1.4 Superposition Principle ☐
- 1.5 Electric Field ☐
- 1.6 Numerical Problems on Electric Field ☐
- 1.7 Electric Dipole ☐
- 1.8 Torque, Force Acting an Electric Dipole and P.E Associated with Dipole ☐

Chemistry

Chapter 12: Organic Chemistry : Some Basic Principles & Techniques

- 12.1 Classification of Organic Compound and Nomenclature of Hydrocarbon ☐
- 12.2 IUPAC Nomenclature of Organic Compounds ☐
- 12.3 Isomerism in Organic Compounds ☐
- 12.4 Fundamental Concept in Organic Reaction Mechanism-Electronic Displacement ☐
- 12.5 Types of Reaction Intermediates ☐

Botany

Chapter 9: Mineral Nutrition

- 9.1 Introduction and Role of Macro Elements ☐
- 9.2 Role of Mineral Elements ☐
- 9.3 Metabolism of Nitrogen ☐

Zoology

Chapter 11: Animal Kingdom(Chordates)

- 11.1 Phylum Chordata ☐
- 11.2 Phylum Vertebrata - I ☐
- 11.3 Phylum Vertebrata - II ☐
- 11.4 Phylum Vertebrata - III ☐

Weekly Study Planner

10th Jan. - 16th Jan., 2022

Physics

Chapter 1: Electric Charges & Fields

- 1.9 Dipole Oscillation and Motion of Charge Particle in Electric Field ☐
- 1.10 Electric Field Due to Continuous Charge Distribution(I) ☐
- 1.11 Electric Field Due to Continuous Charge Distribution(II) ☐

Chemistry

Chapter 12: Organic Chemistry: Some Basic Principles & Techniques

- 12.6 Questions Based on Relative Intermediate, Isomerism and Fission of Bond ☐
- 12.7 Types of Organic Reactions and Mechanisms ☐
- 12.8 Methods of Purification of Organic Compounds ☐
- 12.9 Qualitative and Quantitative Analysis of Organic Compounds ☐

Botany

Chapter 10: Photosynthesis in Higher Plants

- 10.1 Introduction, Contributions of Some Scientists, Photosynthetic Pigments ☐
- 10.2 Mechanism of Photosynthesis ☐
- 10.3 Mechanism of Photosynthesis(1) ☐
- 10.4 Photorespiration ☐
- 10.5 Factors Affecting Photosynthesis ☐

Zoology

Chapter 11: Animal Kingdom(Chordates)

- 11.5 Phylum Vertebrata- IV ☐
- 11.6 Phylum Vertebrata - V ☐

Chapter 12: Structural Organisation in Animals(Animal Morphology)

- 12.1 Animal Morphology-I ☐
- 12.2 Animal Morphology-II ☐

17th Jan. - 23rd Jan., 2022

Physics

Chapter 1: Electric Charges & Fields

- 1.12 Numerical Problems based on Continuous Charge Distribution ☐
- 1.13 Electric Field Lines ☐
- 1.14 Area Vector and Introduction to Electric Flux ☐
- 1.15 Electric Flux and Gauss Law ☐
- 1.16 Gauss Law and Its Applications ☐

Chemistry

Chapter 13: Hydrocarbons

- 13.1 Alkanes ☐
- 13.2 Alkenes ☐
- 13.3 Preparation & Chemical Properties of Alkenes ☐
- 13.4 Alkyne ☐
- 13.5 Benzene ☐

Botany

Chapter 11: Respiration in Plants

- 11.1 Introduction, Glycolysis ☐
- 11.2 Aerobic Respiration-Kreb's Cycle, Electron Transport System ☐

Zoology

Chapter 12: Structural Organisation in Animals(Animal Morphology)

- 12.3 Animal Morphology-III(Cockroach) ☐
- 12.4 Animal Morphology-IV ☐

Chapter 1: Reproduction in Organisms

- 1.1 Reproduction- Asexual and Sexual ☐

Weekly Study Planner

24th Jan. - 30th Jan., 2022

Physics

Chapter 2: Electrostatic Potential and Capacitance

- 2.1 Electrostatic Potential Energy ☐
- 2.2 Electrostatic Potential Due to Point Charges and Short Dipole ☐
- 2.3 Electrostatic Potential Due to Continuous Charge Distribution System and Self Energy ☐
- 2.4 Equipotential Surface ☐
- 2.5 Various Charged System in an External Electric Field and Electrostatics of Conductor ☐
- 2.6 Electrostatic Shielding, Earthing and Dielectrics ☐

Chemistry

Chapter 10: Haloalkane and Haloarenes

- 10.1 Classification, Nomenclature and Preparation ☐
- 10.2 Preparation of Haloalkanes ☐
- 10.3 Preparation of Haloarenes and Properties of Haloalkanes and Haloarenes ☐
- 10.4 Optical Isomerism ☐
- 10.5 Optical Isomerism(Contd.) and Stereochemistry ☐
- 10.6 Elimination Reaction ☐
- 10.7 Chemical Properties ☐

Botany

Chapter 12: Plant Growth & Development

- 12.1 Introduction, Phases of Growth, Growth Rates, Development ☐
- 12.2 Classification of Phytohormones ☐
- 12.3 Seed Dormancy, Seed Germination, Photoperiodism ☐

Zoology

Chapter 2: Human Reproduction

- 2.1 Human Reproductive System - I ☐
- 2.2 Human Reproductive System - II ☐
- 2.3 Gametogenesis ☐
- 2.4 Types of Eggs and Fertilization ☐

31st Jan. - 6th Feb., 2022

Physics

Chapter 2: Electrostatic Potential and Capacitance

- 2.7 Introduction to Capacitance ☐
- 2.8 Energy Stored in Capacitor and Series-parallel Combination ☐
- 2.9 Various Combinations of Capacitor ☐
- 2.10 Dielectric and Common Potentials ☐
- 2.11 Van de graaff Generator and Previous Year Questions ☐

Chemistry

Chapter 11: Alcohols, Phenols and Ethers

- 11.1 Classification, Nomenclature of Alcohols and Phenols & Preparation of Alcohols ☐
- 11.2 Preparation of Phenols & Physical Properties of Alcohols and Phenols ☐
- 11.3 Chemical Properties of Alcohols and Phenols ☐
- 11.4 Reactions of Phenol ☐
- 11.5 Ethers ☐

Botany

Chapter 1: Reproduction in Organisms

- 1.1 Introduction ☐
- 1.2 Asexual Reproduction ☐
- 1.3 Asexual Reproduction(1) ☐
- 1.4 Sexual Reproduction ☐

Chapter 2: Sexual Reproduction in Flowering Plant

- 2.1 Introduction and Microsporogenesis ☐
- 2.2 Pre-fertilization Structure and Events ☐

Zoology

Chapter 2: Human Reproduction

- 2.5 Embryonic Development and Implantation ☐
- 2.6 Gastrulation, Placentation, Parturition and Lactation ☐

Weekly Study Planner

7th Feb. - 13th Feb., 2022

Physics

Chapter 3: Current Electricity

- 3.1 Introduction to Current & Resistance ☐
- 3.2 Drift Velocity and Origin of Resistivity ☐
- 3.3 Electrical Energy and Power ☐
- 3.4 Cell, EMF and Internal Resistance ☐
- 3.5 Application of Kirchhoff's Law ☐
- 3.6 Wheatstone Bridge, Infinite Ladder & Symmetry Problems ☐
- 3.7 Meter Bridge & Potentiometer ☐
- 3.8 Previous Year Questions ☐

Chapter 4: Moving Charges and Magnetism

- 4.1 Introduction to Magnetic Field and Biot-savart Law ☐
- 4.2 Magnetic Field Due to Current Carrying Configurations ☐
- 4.3 Solenoid, Toroid, Force on a Charge Moving Through Magnetic Field ☐
- 4.4 Lorentz Force ☐

Chemistry

Chapter 12: Aldehydes, Ketones and Carboxylic Acids

- 12.1 Introduction and Preparation of Aldehydes and Ketones ☐
- 12.2 Preparation & Physical Properties of Aldehydes and Ketones ☐
- 12.3 Chemical Properties of Aldehydes and Ketones ☐
- 12.4 Chemical Properties(Reduction and oxidation reaction) ☐
- 12.5 Chemical Properties(Due to acidic α-hydrogens) ☐
- 12.6 Carboxylic Acid ☐

Botany

Chapter 2: Sexual Reproduction in Flowering Plants

- 2.3 Pre-fertilization Structure and Events(1) ☐
- 2.4 Pre-fertilization Structure and Events(2) ☐
- 2.5 Pre-fertilization Structure and Events(3), Pollen-pistil Interaction ☐
- 2.6 Fertilization, Post-fertilization Events ☐
- 2.7 Post-fertilization Events(1) ☐
- 2.8 Post-fertilization Events(2) ☐

Zoology

Chapter 3: Reproductive Health

- 3.1 Problems and Strategies & Population Explosion ☐
- 3.2 MTP, STIs and ART ☐

14th Feb. - 20th Feb., 2022

Physics

Chapter 4: Moving Charges and Magnetism

- 4.5 Force Experienced by a Conductor Placed in Magnetic Field ☐
- 4.6 Magnetic Dipole and Torque, Galvanometer Conversion into Ammeter and Voltmeter ☐

Chapter 5: Magnetism and Matter

- 5.1 Introduction to Magnetism and Magnet ☐
- 5.2 Potential Energy of Bar Magnet & Earth's Magnetism ☐
- 5.3 Neutral Points and Tangent Law ☐
- 5.4 Magnetisation & Materials ☐

Chemistry

Chapter 13: Amines

- 13.1 Introduction and Methods of Preparation ☐
- 13.2 Physical and Chemical Properties ☐
- 13.3 Chemical Reaction of Amines ☐
- 13.4 Preparation of Aromatic Amine(aniline) ☐

Botany

Chapter 3: Principles of Inheritance and Variation

- 3.1 Introductions ☐
- 3.2 Inheritance in One Gene ☐
- 3.3 Exceptions to Mendelian Principles ☐
- 3.4 Exceptions to Mendelian Principles(1) ☐

Zoology

Chapter 4: Evolution

- 4.1 Evolution-Origin of Life ☐
- 4.2 Evidences of Evolution-A ☐
- 4.3 Evidences of Evolution-B ☐

Weekly Study Planner

21st Feb. - 27th Feb., 2022

Physics

Chapter 6: Electromagnetic Induction

- 6.1 Introduction to Electromagnetic Induction ☐
- 6.2 Motional Electromotive Force ☐
- 6.3 Eddy Currents, Inductance and Combination of Inductors ☐
- 6.4 Series LR Circuit and Devices ☐

Chapter 7: Alternating Current

- 7.1 Introduction, Average & RMS Value of AC ☐
- 7.2 AC Voltage Applied Across Inductor, Capacitor & Their Combination ☐
- 7.3 Series LCR Circuit, Resonance ☐
- 7.4 LC Oscillations & Transformer ☐

Chemistry

Chapter 9: Coordination Compounds

- 9.1 Werner's Theory and Terminology ☐
- 9.2 Nomenclature ☐
- 9.3 Isomerism ☐
- 9.4 Valence Bond Theory ☐
- 9.5 Crystal Field Theory and Jahn-Teller Effect ☐
- 9.6 Stability of Coordination Compounds and Organometallic Compounds ☐

Chapter 8: The d & f Block Elements

- 8.1 The General Characteristics of d-Block Elements and Their Variation in Periodic Table ☐

Botany

Chapter 3: Principles of Inheritance and Variation

- 3.5 Gene Interactions ☐
- 3.6 Non-mendelian Inheritance and Chromosomal Theory of Inheritance ☐
- 3.7 Exception to Law of Independent Assortment ☐
- 3.8 Sex Determination ☐
- 3.9 Mutations ☐
- 3.10 Sex Linked Inheritance and Pedigree Analysis ☐
- 3.11 Genetic, Mendelian and Chromosomal Disorder ☐

Zoology

Chapter 4: Evolution

- 4.4 Theories of Evolution - I ☐
- 4.5 Theories of Evolution - II ☐
- 4.6 Brief Account of Evolution and Human Evolution ☐

28th Feb. - 6th Mar., 2022

Physics

Chapter 8: Electromagnetic Waves

- 8.1 Introduction to Electromagnetic Waves ☐
- 8.2 Electromagnetic Spectrum ☐

Chapter 9: Ray Optics and Optical Instruments

- 9.1 Introduction to Ray Optics ☐
- 9.2 Spherical Mirrors ☐
- 9.3 Spherical Mirror Ray Diagram ☐
- 9.4 Refraction ☐

Chemistry

Chapter 8: The d & f Block Elements

- 8.2 The General Characteristics of d-Block Elements and Their Variation in Periodic Table(Contd.) ☐
- 8.3 Some Important Compounds of Transition Elements and Inner Transition Elements ☐

Chapter 10: The s-Block Elements

- 10.1 Alkali Metals ☐
- 10.2 Compounds of Alkali Metals & General Properties of Alkaline Earth Metals ☐
- 10.3 Compounds of Alkaline Earth Metals ☐

Botany

Chapter 4: Molecular Basis of Inheritance

- 4.1 Introduction, DNA Structure ☐
- 4.2 DNA Packaging, Search for Genetic Material ☐
- 4.3 DNA Replication ☐
- 4.4 Gene and Transcription ☐
- 4.5 Transcription Contd. ☐
- 4.6 Genetic Code ☐

Zoology

Chapter 5: Human Health & Disease

- 5.1 Health and Diseases ☐
- 5.2 Common Human Diseases ☐
- 5.3 Immunity and Its Types-I ☐

Weekly Study Planner

7th Mar. - 13th Mar., 2022

Physics

Chapter 9: Ray Optics and Optical Instruments

- 9.5 Apparent Depth/Height of Object ☐
- 9.6 TIR & Refraction at Spherical Surfaces ☐
- 9.7 Lens Maker's Formula ☐
- 9.8 Image Formation by Lenses ☐
- 9.9 Power of Lens & Defects in Images ☐
- 9.10 Refraction Through Prism & Dispersion ☐
- 9.11 Rainbow Formation ☐
- 9.12 Numericals ☐

Chemistry

Chapter 11: The p-Block Elements

- 11.1 Group 13 Elements(The Boron Family) ☐
- 11.2 Group 14 Elements(The Carbon Family) ☐

Chapter 7: The p-Block Elements

- 7.1 Group 15 Elements and Their Compounds ☐
- 7.2 Important Compounds of Group 15 Elements and Their Properties ☐
- 7.3 Phosphorus and Its Compounds & Group 16 Elements ☐

Botany

Chapter 4: Molecular Basis of Inheritance

- 4.7 t-RNA, Translation ☐
- 4.8 Regulation of Gene Expression ☐
- 4.9 Human Genome Project ☐

Chapter 5: Strategies for Enhancement in Food Production

- 5.1 Introduction, Hybridisation ☐
- 5.2 Green Revolution and Plant Breeding ☐
- 5.3 Tissue Culture ☐

Zoology

Chapter 5: Human Health & Disease

- 5.4 Immunity and Its Types-II ☐
- 5.5 Immune Disorders ☐
- 5.6 Drug and Alcohol: Use, Abuse and Hazards ☐

14th Mar. - 20th Mar., 2022

Physics

Chapter 10: Wave Optics

- 10.1 Introduction & Huygens Principle ☐
- 10.2 Doppler's Effect & Interference ☐
- 10.3 Young's Double Slit Experiment ☐
- 10.4 Various Cases of Interference of Light ☐
- 10.5 Diffraction ☐
- 10.6 Resolving Power and Polarisation ☐

Chapter 11: Dual Nature of Radiation and Matter

- 11.1 Photoelectric Effect ☐
- 11.2 Photon Picture of Light ☐
- 11.3 Wave Nature of Electron and Matter ☐

Chemistry

Chapter 7: The p-Block Elements

- 7.4 Group 16 Elements(Contd.) & Compounds of Group 16 Elements ☐
- 7.5 Compounds of Sulphur ☐
- 7.6 Group 17 Elements and Their Compounds ☐
- 7.7 Chlorine and Group 18 Elements ☐

Chapter 9: Hydrogen

- 9.1 Hydrogen Its Preparation and Properties ☐
- 9.2 Water(H_2O), Heavy Water(D_2O), Hydrogen Peroxide(H_2O_2) ☐

Botany

Chapter 6: Microbes in Human Welfare

- 6.1 Introduction and Uses ☐
- 6.2 Microbes in Sewage Treatment ☐
- 6.3 Microbes in Biogas Production ☐

Chapter 7: Organisms and Populations

- 7.1 Introduction, Levels of Organisation, Biome ☐
- 7.2 Abiotic Factors ☐
- 7.3 Adaptations ☐
- 7.4 Population Attributes ☐
- 7.5 Population Interactions ☐

Zoology

Chapter 6: Strategies for Enhancement in Food Production(Animal Husbandry)

- 6.1 Animal Husbandry - I ☐
- 6.2 Animal Husbandry - II ☐

Weekly Study Planner

21st Mar. - 27th Mar., 2022

Physics

Chapter 12: Atoms

- 12.1 Rutherford's Nuclear Model of Atom ☐
- 12.2 Bohr Model of the Hydrogen Atom ☐
- 12.3 Line Spectra of the Hydrogen Atom ☐
- 12.4 Spectrum of X-rays & Laser ☐

Chapter 13: Nuclei

- 13.1 Composition of Nucleus and Its Stability ☐
- 13.2 Radioactivity ☐
- 13.3 Nuclear Reactions ☐

Chemistry

Chapter 6: General Principles and Processes of Isolation of Elements

- 6.1 Concentration of Ore and Their Conversion to Oxide ☐
- 6.2 Importance of Ellingham Diagram and Extraction of Metals ☐

Chapter 14: Biomolecules

- 14.1 Biomolecules ☐

Chapter 15: Polymers

- 15.1 Polymers ☐

Botany

Chapter 8: Ecosystem

- 8.1 Introduction ☐
- 8.2 Energy Flow ☐
- 8.3 Nutrient Cycle and Succession ☐

Chapter 9: Biodiversity and Conservation

- 9.1 Introduction, Patterns ☐
- 9.2 Biodiversity Conservation ☐

Zoology

Chapter 7: Biotechnology: Principles and Processes

- 7.1 Principles of Biotechnology ☐
- 7.2 Processes of Biotechnology ☐

28th Mar. - 31st Mar., 2022

Physics

Chapter 14: Semiconductor

- 14.1 Introduction to Semiconductors ☐
- 14.2 P-N Junction Diode and Its Applications ☐
- 14.3 Opto-Electronic Devices & Transistor Action ☐
- 14.4 Application of Transistor & Digital Electronics ☐
- 14.5 Numericals Based on Transistor & Digital Electronics ☐

Chemistry

Chapter 16: Chemistry in Everyday Life

- 16.1 Chemistry in Everyday Life ☐

Chapter 14: Environmental Chemistry

- 14.1 Pollution, Causes of Pollution and Green Chemistry ☐

Botany

Chapter 10: Environmental Issues

- 10.1 Introduction, Types of Pollution ☐
- 10.2 Water Pollution ☐
- 10.3 Soil Pollution, Radioactive Pollution ☐

Zoology

Chapter 8: Biotechnology and Its Applications

- 8.1 Biotechnology Applications in Agricultures ☐
- 8.2 Biotechnology Applications in Therapeutics ☐

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Test Planner

(November 2021 - April 2022)

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Repeater Course - Medical [Phase-06] : Test Planner (2021 - 2022) for NEET-2022 (November 2021 to April 2022)

Test No.	Test Date	Test Pattern	Test Duration	Test Syllabus			
				Physics	Chemistry	Botany	Zoology
FT-01	17-Nov-21	New NEET Pattern	3 Hrs	Physical World, Units & Measurements, Motion in a Straight Line	Some Basic Concepts of Chemistry, Structure of Atom	Cell : The Unit of Life, Cell Cycle & Cell Division	Structural Organisation in Animals–Animal Tissues, Biomolecules
FT-02	15-Dec-21	New NEET Pattern	3 Hrs	Motion in a Plane, Laws of Motion, Work, Energy & Power	Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure, States of Matter	The Living World, Biological Classification, Morphology of Flowering Plants	Digestion & Absorption, Breathing & Exchange of Gases, Body Fluids & Circulation
FT-03	19-Jan-22	New NEET Pattern	3 Hrs	System of Particles & Rotational Motion, Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids	Thermodynamics Equilibrium, Redox Reactions, The Solid State Solutions, Electrochemistry, Chemical Kinetics	Anatomy of Flowering Plants, Plant Kingdom, Transport in Plants	Excretory Products & their Elimination, Locomotion & Movement, Neural Control & Coordination, Chemical Coordination & Integration
FT-04	16-Feb-22	New NEET Pattern	3 Hrs	Thermal Properties of Matter, Thermodynamics, Kinetic Theory, Oscillations, Waves, Electric Charges & Fields	Surface Chemistry, Organic Chemistry: Some Basic Principle & Techniques, Hydrocarbons, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers	Mineral Nutrition, Photosynthesis in Higher Plants, Respiration in Plants & Plant Growth and Development, Reproduction in Organisms, Sexual Reproduction in Flowering Plants	Animal Kingdom, Structural Organisation in Animals– Animal Morphology (Cockroach), Reproduction in Organisms

Test No.	Test Date	Test Pattern	Test Duration	Test Syllabus			
				Physics	Chemistry	Botany	Zoology
FT-05	16-Mar-22	New NEET Pattern	3 Hrs	Electrostatic Potential and Capacitance, Current Electricity, Moving Charges and Magnetism, Magnetism and Matter, Electromagnetic Induction	Aldehydes, Ketones and Carboxylic Acids, Amines, The d- & f-Block Elements, Coordination Compounds , The s-Block Elements	Principles of Inheritance & Variation, Molecular Basis of Inheritance, Strategies for Enhancement in Food Production, Microbes in Human Welfare	Human Reproduction, Reproductive Health, Evolution
FT-06	06-Apr-22	New NEET Pattern	3 Hrs	Alternating Current, Electromagnetic Waves, Ray Optics & Optical Instruments, Wave Optics, Dual Nature of Radiation and Matter, Atoms, Nuclei & Semiconductor	The p-Block Elements, Hydrogen, General Principles and Processes of Isolation of Elements, Biomolecules, Polymers, Environmental Chemistry , Chemistry in Everyday Life	Organisms and Populations, Ecosystem, Biodiversity and Conservation, Environmental Issues	Human Health & Disease, Strategies for Enhancement in Food Production - Animal Husbandry, Biotechnology-Principles and Processes, Biotechnology and its Applications

Note: Each test will contain total 200 Questions (50 Questions from each subject- 'Section A' 35 Questions & 'Section B' 15 questions)

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Thank You

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