

MAJOR TEST SERIES FOR ENTHUSE

TEST DATE	SYLLABUS
02.01.2020	11 th CLASS SYLLABUS
10.01.2020	12 th CLASS SYLLABUS
16.01.2020	11 th CLASS SYLLABUS
22.01.2020	12 th CLASS SYLLABUS
24.01.2020	FULL SYLLABUS
28.01.2020	FULL SYLLABUS
15.02.2020	FULL SYLLABUS
17.02.2020	FULL SYLLABUS
21.02.2020	FULL SYLLABUS

PHYSICS (45 Q.)

XI - SYLLABUS (Session : 2019-20)	XII - SYLLABUS (Session : 2019-20)
Topic	Topic
Basic mathematics used in physics, vectors	Electrostatics
Units, Dimensions and Measurement	Capacitors
Kinematics	Current electricity, Thermal and Chemical effects of current
Laws of motion and friction	Magnetic effect of current and Magnetism
Work, Energy, Power	Electromagnetic Induction (EMI)
Collisions and Centre of Mass	Alternating current (AC)
Circular Motion	EM Wave
Rotational Motion	Ray optics and optical Instruments
Gravitation	Wave optics (Nature of Light, Interference, Diffraction & Polarisation)
Properties of matter and Fluid Mechanics	Modern Physics
Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics)	Semiconductor and Digital Electronics
Oscillations (SHM, damped oscillations, forced oscillation & Resonance)	
Wave Motion, Doppler's Effect	

CHEMISTRY (45 Q.)

XI - SYLLABUS (Session : 2019-20)	XII - SYLLABUS (Session : 2019-20)
Topic	Topic
Some Basic Concept of Chemistry (Mole Concept),	Solid State
Atomic Structure	Solutions
Periodic Table & Periodicity in Properties.	Electrochemistry
Chemical Bonding	Chemical Kinetics
Gaseous State	Surface Chemistry
Chemical Thermodynamics and Energetics	Heavier Metals occurrence and Extraction
Chemical Equilibrium, Ionic Equilibrium, Acid-Base (Concepts), pH-Buffer Solution, Indicators	p-Block Elements (15 to 18 Groups).
Hydrogen and its Compound	d-Block Elements, Coordination Chemistry, f-Block Elements, Organo Metallic Compounds.
Redox Reactions	Halogen Derivatives.
s Block Elements Chemistry of Lighter Elements. p-Block Elements (Group 13 & 14 Boron & Carbon Family).	Mono, Di & Tri Hydric alcohols, Phenol, Ether.
Organic Chemistry-some Basic Principle, Nomenclature, Isomerism, Classification of Organic Compounds, Reaction Mechanism	Carbonyl Compound, Carboxylic acid & its Derivatives
Alkane, Alkene, Alkyne, Aromatic Hydrocarbon.	Amine, Aniline, Nitro Benzene, Nitro Alkane, Cyanides, Isocyanides.
Environmental Chemistry	Biomolecules, Polymers, Chemistry in Everyday Life, Purification of Organic Compounds.

BIOLOGY (90 Q.)

XI - SYLLABUS (Session : 2019-20)	XII - SYLLABUS (Session : 2019-20)
Topic	Topic
DIVERSITY IN THE LIVING WORLD : The Living World, Biological Classification, Plant Kingdom.	REPRODUCTION : Reproduction in Organisms, Sexual Reproduction in Flowering Plants, Human Reproduction, Reproductive Health.
Animal Kingdom.	GENETICS AND EVOLUTION : Principles of Inheritance and Variation, Molecular Basis of Inheritance, Evolution.
STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS : Morphology of Flowering Plants, Anatomy of Flowering Plants, Structural Organisation in Animals.	BIOLOGY IN HUMAN WELFARE : Human Health and Disease, Strategies for Enhancement in Food Production, Microbes in Human Welfare.
CELL : STRUCTURE AND FUNCTIONS : Cell : The Unit of Life, Biomolecules, Cell Cycle and Cell Division.	BIOTECHNOLOGY : Biotechnology : Principles and Processes, Biotechnology and its Applications.
PLANT PHYSIOLOGY : Transport in Plants, Mineral Nutrition, Photosynthesis in Higher Plants, Respiration in Plants, Plant Growth and Development.	ECOLOGY : Organisms and Populations, Ecosystem, Biodiversity and Conservation, Environmental Issues.
HUMAN PHYSIOLOGY : Digestion and Absorption, Breathing and Exchange of Gases, Body Fluids and Circulation, Excretory Products and their Elimination, Locomotion and Movement, Neural Control and Coordination, Chemical Coordination and Integration.	