TEST	TEST	PHYSICS	CHEMISTRY	BIOLOGY	TEST
NUMBER	DATE	11113103	GHLIVIIGHA	BioLogi	PATTERN
11	03/12/2017	Syllabus of Test # 8, 9 & 10	Syllabus of Test # 8, 9 & 10	Syllabus of Test # 8, 9 & 10	NEET-UG Quarter Syllabus Test
12	P	of Gravitation), Gravitational Field and its Intensity, Brief idea about Inertial and Gravitational mass, Acceleration due to gravity and its variation with altitude and depth. Idea about variation in g due to Shape and Rotation of earth, Gravitational potential energy and gravitational potential, Kepler's laws of planetary motion (The law of orbits, Areas and Periods), Motion of Planets and Satellites in Circular orbits, Orbital velocity of a satellite, Total Energy and Binding Energy of a satellite, Escape velocity and escape energy, Geostationary satellites, Idea about dip new satellites, Weightlessness.  OSCILLATIONS: (SHM, damped and Infrequencial about dip new satellites, Weightlessness.)  Periodic (harmonic) in a on and Oscillatory motion, Calodic motion periodic frequency, displacement as a funcion of time, Recedical mations, Simple harmonic and tion (ChM) and its equation; Velocity, Acceleration and Oscillatory motion, Calodic motion periodic frequency, displacement as a funcion of time, Recedical interior and force constant. Equivalent spring constant of Series and parallel combinations, Energy in SHM – Kinetic and Potential energies, Simple pendulum-derivation of expression for its time period, Superposition of two SHMs of Same Frequency in the same direction, Free, forced and damped oscillations (qualitative ideas only), resonance.  Modern Physics: Photoelectric effect (Hertz observation, Hallwach's and Lenard's observations, Einstein's photoelectric equation- particle nature of light (photon), Matter waves (Wave nature of particles, de Broglie relation, Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained), Atoms (Alpha- particle scattering experiments; Rutherford's model of atom, Bohr model, energy levels, hydrogen spectrum), X-rays and their elementary idea, Nuclei (Composition and size of nucleus, Atomic masses, Isotopes, isobars, isotones and isodiapheres, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass	of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses with special reference to methanol and ethanol. Some commercially important alcohols.  Phenols: Nomepolature, in this so preparation, physical and chemical properties, ascipilic nature of phenol, electrophillic substitution exitions, uses of phenols. It emperates the properties, uses. Aldehydra Kerones and Carboxylic Acids: Aldehydes and Certones: It pronoclature, nature of carbonyl group, methods of preparation, physical and chemical properties; and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.  Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.  ENVIRONMENTAL CHEMISTRY: Environmental pollution: Air, water and soil pollution, chemical reactions in atmosphere, smogs, major atmospheric pollutants; acid rain ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming-pollution due to industrial wastes; green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.	Ecosystem: Patterns, components; productivity and decomposition; Energy flow; Pyramids of number, biomass, energy; Nutrient cycling (carbon and phosphorous); Ecological succession; Ecological Services-Carbon fixation, pollination, oxygen release.  Biodiversity and its Conservation: Concept of Biodiversity; Patterns of Biodiversity; Importance of Biodiversity; Loss of Biodiversity; Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, National parks and sanctuaries.  Environmental Issues: Air pollution and its control; Water pollution and its control; Agrochemicals and their effects; Solid waste management; Radioactive waste management; Greenhouse effect and global warming; Ozone depletion; Deforestation; Any three case studies as success stories addressing environmental issues.	NEET-UG
13		Mechanical Waves, Longitudinal and transverse waves, Equation of Plane Progressive waves, Velocity of Transverse mechanical waves, Intensity of waves, Sound waves: Audible, Infrasonic and Ultrasonic waves, Speed of sound waves: Newton's formula and Laplace correction, Effect of temperature, Pressure and Humidity on speed of Sound waves, Some idea about description of sound waves as Displacement and Pressure waves, Characteristics of sound waves: Pitch, Loudness and Quality, Reflection and transmission of waves & Echo, Principle of superposition of	Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.  Cyanides and Isocyanides - will be mentioned at relevant places.  Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.  Polymers: Classification - Natural and synthetic, Molecular mass of polymers, methods of polymerization (addition and condensation), co-polymerization. Some important polymers: natural and synthetic like polyesters, bakelite; rubber,	Human Physiology-II: Locomotion and Movement: Types of movement- ciliary, flagellar, muscular; Skeletal muscle-contractile proteins and muscle-contraction; Skeletal system and its functions (To be dealt with the relevant practical of Practical syllabus); Joints; Disorders of muscular and skeletal system-Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.  Neural Control and Coordination: Neuron and nerves; Nervous system in humans- central nervous system, peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Reflex action; Sense organs; Elementary structure and function of eye and ear.	

TEST	TEST	PHYSICS	CHEMICTOV	DIOLOGY	TEST
NUMBER	DATE	PHYSICS	CHEMISTRY	BIOLOGY	PATTERN
		Semiconductor and Digital Electronics: Classification of Metals, Conductors and Semi-conductors on the basis of (Conductivity, Energy bands in solids (qualitative ideas only), Intrinsic Semi-conductor, Extrinsic Semi-conductor (n-type and p-type), p-n Junction: p-n junction formation, Barrier potential, Semiconductor diode: I-V characteristics in forward and reverse bias, Application of Junction Diode as a Rectifier and Filter (only qualitative idea), Special purpose p-n junction diodes and their I-V characteristics (LED, Photodiode, Solar cell, Zener diode), Junction Breakdown: Zener and Avalanche breakdown, Zener diode as a voltage regulator, Junction Transistor (n-p-n and p-n-p Transistor structure and action, Characteristics of a transistor, Transistor as an amplifier (commune on the configuration), Transistor as a switch (i.e. ON-ant OFF). The sistor as a oscillator with feedback effects), Fig. 12. Electronics and Logic gates (Law of Boolean algebra and De Morgan's Theorem Basic Logic gates (OP and the ID gate, NOT gate) (Combination of a passic Components of a Communication System, Analog and Digital Communications, Bandwidth of Signals, Bandwidth of Transmission Medium, Propagation of Electromagnetic Waves: Ground Wave, Sky Wave & Space Wave, Modulation and its Necessity, Amplitude Modulation: Modulation Factor, Sideband Frequencies, Production of Amplitude Modulated	configuration, oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen): importance. Proteins - Elementary idea of – amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes.  Hormones - Elementary idea (excluding stilucione).  Vitamins - Classification and function.  Nucleic Acids: E.VA.a. of R.V.  Chemistry in the very Line: Chemicals in medicines (Drugs) - and peace, tranquillizers, antiseptics, disinfectants, intendictobials, antifertility drugs, antibiotics, antacids, antihistamines.  Ch. Inicais in food- preservatives, artificial sweetening agents, the entary) idea of antioxidants.  Seansing agents- soaps and detergents, cleansing action.  Methods of purification qualitative and quantitative analysis STATES OF MATTER: Gases and Liquids: Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws of elucidating the concept of the molecule, Boyle's law, Charle's law, Gay Lussac's law, Avogadro's law, ideal behaviour of gases, empirical derivation of gas equation. Kinetic energy	hormones; Human endocrine system-Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary Idea); Role of hormones as messengers and regulators, Hypo-and hyperactivity and related disorders (Common disorders e.g. Dwarfism, Acromegaly, Cretinism, goiter, exopthalmic goiter, diabetes, Addison's disease).	
14	14/01/2018	Syllabus of Test # 8, 9, 10, 12 & 13	Syllabus of Test # 8, 9, 10, 12 & 13	Syllabus of Test # 8, 9, 10, 12 & 13	NEET-UG Half Syllabus Test
15	04/02/2018	Full Syllabus	Full Syllabus	Full Syllabus	NEET-UG
16	18/02/2018	Full Syllabus	Full Syllabus	Full Syllabus	All India Online Open Test NEET-UG 10:00 AM to 01:00 PM
17		Solution by Factorization and by Shridharacharya Formula, Properties of roots (real, equal, imaginary etc). Application of Quadratic equation in physics), Binomial Theorem and binomial approximation, Logarithm and Exponents (Laws of logarithms and exponents with applications / examples), Series (Arithmetic Progression and its general term and Sum, Sum of first n Natural numbers, Geometrical Progression and its general term and Sum, Sum of infinite GP), Componendo & Dividendo rule. TRIGONOMETRY: Angle & its measurement (Sexagesimal and Circular system), Trigonometric-ratios, Trigonometric identities, Four Quadrants & ASTC rule, T-ratios for general angles,	Concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbital, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals- Aufbau principle, Pauli exclusion principles and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.  CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES: Why do we need to classify elements, Genesis of periodic classification. Modern periodic law and long form of periodic table. Nomenclature of elements with atomic number	recemose, flower, fruit and seed (To be deal along with the relevant practical of the Practical Syllabus).  DIVERSITYIN LIVING WORLD: What is living?; Biodiversity; Need for classification; Three domains of life; Taxonomy & Systematics; Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy -Museums, Zoos, Herbaria, Botanical gardens. Plant Diversity: Five kingdom classification; salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids. Prokaryotic Cell (Bacteria)	NEET-UG