AUM SUN PUBLIC SCHOOL

ANNUAL EXAM SYLLABUS (2024-25)

CLASS- 11TH (PCB)

Reading Skills	1.Coprehension (Discussive Passage) (Factual Passage) 2.Note-Making
Writing Skills and Grammar	1.Debate writing 2.Speech writing 3.Poster Designing 4.Advertiesment 1.Tenses 2. Clauses
Snapshot	1.The Summer of the beautiful white horse 2. The address 5.Mother's Day 7.Birth 8.The tale of melon city
Hornbill	1.The portrait of lady 2.We were not afraid to die…. If we can all be together 3.Discovering Tut: The saga continues 7.The Adventure 8.Silk road Poetry- • A Photograph • The Laburnum Top • Voice of the Rain • Childhood • Father to Son

PHYSICS	CH-1 Unit and Dimension CH-2 Motion in a Straight Line CH-3 Motion in a Plane Ch-4 Laws of Motion CH-5 Work Energy and Power CH-6 System of Particles & Rotational Motion CH-7 Gravitation CH-8 Mechanical Properties of Solid CH- 9 Mechanical Properties of Fluid CH- 10 Thermal Properties of Matter CH- 11 Thermodyanamics CH- 12 Kinetic Theory CH-13 Oscillations CH-14 Waves
CHEMISTRY	Ch 1 Some Basic Concepts of Chemistry Ch 2 Structure of Atom Ch3 Classification of Elements and Periodicity in Properties Ch4 Chemical Bonding and molecule structure Ch5 Chemical Thermodynamics Ch 6 Equilibrium Ch7 Redox Reactions Ch 8 Organic Chemistry-Some Basic Principles and Techniques Ch 9 Hydrocarbons
BIOLOGY	**Chapter-1: The Living World** Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature **Chapter-2: Biological Classification** Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids. **Chapter-3: Plant Kingdom** Classification of plants into major groups; Salient and distinguishing features and a few

	examples of Algae, Bryophyta, Pteridophyta, Gymnospermae (Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations) **Chapter-4: Animal Kingdom** Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category). (No live animals or specimen should be displayed.) **Chapter-5: Morphology of Flowering Plants** Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae **Chapter-6: Anatomy of Flowering Plants** Anatomy and functions of tissue systems in dicots and monocots. **Chapter-7: Structural Organisation in Animals** Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog. **Chapter-8: Cell-The Unit of Life** Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus. **Chapter-9: Biomolecules** Chemical constituents of living cells:

	biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents – Concept of Metabolism, Metabolic Basis of Living, The Living State) **Chapter-10: Cell Cycle and Cell Division** Cell cycle, mitosis, meiosis and their significance **Chapter-11: Photosynthesis in Higher Plants** Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis. **Chapter-12: Respiration in Plants** Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient. **Chapter-13: Plant - Growth and Development** Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA; **Chapter-14: Breathing and Exchange of Gases** Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory

	disorders. **Chapter-15: Body Fluids and Circulation** Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure. **Chapter-16: Excretory Products and their Elimination** Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant. **Chapter:17 Locomotion and Movement** Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout. **Chapter-18: 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 **Chapter-19: Chemical Coordination and Integration** Endocrine glands and 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; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease. **Note:** Diseases related to all the human physiological systems to be taught in brief.
PHYSICAL EDUCATION	1.Changing trends and career in physical education 2.Olympic value education 3.yoga 4.Physical education and sports for CWSN 5.Physical fitness, health and wellness 6.Test, Measurement and evaluation 7. Fundamental of anatomy and physiology in sports 8. Fundamental of kinesiology and biomechanics in sports 9.Psychology and sports 10. Training and doping in sports