



Yugantar Public School, Rajnandgaon

Breakup Syllabus 2023-24

CLASS : XII ENGLISH

Month	Syllabus	Total Days	Completed/ Not Completed
April	Introduction of Syllabus & Text book. General Instructions Notice Writing (Short Composition) Formal/Informal Invitation & reply Poem- My Mother at SixtySix (Flamingo) (Flamingo) Prose-The Last Lesson		
June	Third Level (Vistas) Poem- Keeping Quiet		
July	WS - Letter to the Editor Lost Spring (Flamingo) WS - Application for a Job The Tiger King (Vistas) Prose-Deep water (Flamingo) WS- Article Writing		
August	Journey to the End of the Earth (Vistas) Poem - A Thing of Beauty (Flamingo) The Rattrap (Flamingo) The Enemy (Vistas) Poets and Pancakes		
September	Indigo (Flamingo) On the Face of It (Vistas) Poem - A Roadside Stand		
October	HALF YEARLY EXAMINATION (from 4th to 18th Oct) WS-Report Writing Prose-The Interview		
November	Poem -Aunt Jennifer's Tigers Prose- Going Places(Vistas) Prose-Memories of Childhood		
December	Revision		
January	Revision		
February	Revision		
March	Term II Examination		

Teacher Name:

PRINCIPAL



Yugantar Public School, Rajnandgaon
Breakup Syllabus 2023-24

CLASS : XII HINDI

Month	Syllabus	Total Days	Completed/ Not Completed
April	एक गीत, भक्तिन, बाज़ार दर्शन, पतंग, कविता के बहाने/ बात सीधी थी पर,		
June	काले मेघा पानी दे सिल्वर वेंडिंग,		
July	पहलवान की ढोलक, कहानी-नाटक रचना प्रक्रिया, आलेख/विशेष लेखन/ समाचार लेखन/ फ़ीचर लेखन,		
August	जूझ, कैमरे में बंद अपाहिज उषा, बादल राग, शिरीष के फूल,		
September	कवितावली, लक्ष्मण मूर्च्छा और राम का विलाप, अतीत में दबे पाँव, श्रम-विभाजन और जाति - प्रथा, मेरी कल्पना का आदर्श समाज,		
October	रुबाइयाँ, छोटा मेरा खेत / बगुलों के पंख, रचनात्मक-लेखन, पुनरावृत्ति,		
November	पुनरावृत्ति		
December	प्रथम पूर्व परिषदीय परीक्षा,		
January	Revision		
February	Revision		
March	Term II Examination		

Teacher Name:

PRINCIPAL



CLASS : XII PHYSICS			
Month	Syllabus	Total Days	Completed/ Not Completed
April	Ch-1 electric charge and fields; electric charge , conductors and insulator,properties of charge Coulomb's law ,Force between multiple charge,electric field, numerical E.F.lines ,electric flux ,electric dipole , E.F.on the axis and equitorial plane of electric dipole , Dipole in a uniform electric field (torque) and continuous charge distribution , Gauss's law , Application of Gauss's law , Application of Gauss's law , Numerical, Ch-2 electrostatic potential and capacitance ; electrostatic potential potential due to a point charge, Potensial due to an electric dipole and system of charges , Equipotential surfaces (relation between field and potential), Potential energy of system of charges and numerical , Potential energy in an external field numerical , Potential energy of dipole in an external field Electrostatic of conductor Dielectric and polerisation Capacitor and capacitance , II plate capacitorEffect of dielectric on capacitance,V,E,U,and QEnergy stored in capacitor (formula only) , numericalCombination of capacitor Test (ch-1 and ch-2)		
June	ch-3,Current Electricity; Electric current, flow of electric charges in a metallic conductor, Drift velocity, Mobility and their relation with electric current, Ohm's law, Electrical energy and power, Electrical resistivity and conductivity, Temperature dependence of resistance, Internal resistance of a Cell, potential difference and emf of a cell, Combination of cells in series and in parallel, Kirchhoff's rules,		
July	Kirchhoff's rules, Wheatstone bridge, Ch-4 Moving charges and magnetic field magnetic field; Oersted's experiments force on moving in MF, Lorentz force, Force on a current-carrying conductor in a uniform magnetic field, Biot - Savart law , Biot - Savart law ,numerical, MF at the axis of urrent carrying circular loop, Ampere's law and its applications to infinitely long straight wire, Solenoid, Force between two II current-carrying conductors-definition of ampere, Torque experienced by current loop in uniform magnetic field, Magnetic dipole, galvanometer, numerical, Ch-5 Magnetism and matter;The Bar magnet ,bar magnet as an equivalent solenoid , magnetisation and intensity, Magnetism and Gauss's law, Magnetic properties of material diamagnetic , Paramgnetic, Ferromagnetic, Ch-6-Electromagnetic induction; Electromagnetic induction; Faraday's laws,		
August	Induced EMF and current, Lenz's law and conservation of energy, Self induction, Mutual infuction, Energy stored in inductor, AC generator, Ch-7,Alternating currents; Alternating currents, peak and RMS value of alternating current/voltage, AC voltage supplied to an inductor , LCR circuit , Resonance, Power in AC circuit power factor, Power factor, Tansformer, Transformer, numerical, Ch-8 Electromagnetic waves ; Displacement current, Electromagnetic waves properties, Electromagnetic spectrum, ch-9 Light ; Reflection of light, spherical mirrors, mirror formula,		
September	Sign convention ,focal length, Refraction of lights refractive index, Total internal reflection and optical fibers, Refraction at spherical surfaces, Lenses, thin lens formula, lens maker's formula magnification, Power of a lens, combination of thin lenses in contact, Refraction of light throughout a prism, Simple Microscopes, Compoumd Microscopes, Telescope, Numerical, Ch-10 Wave optics ,Huygens principal, Refraction of plane , Reflection of plane wave, Coherent and incoherent addition. of waves,Young's double slit , experimentDiffraction due to a single slit, Numerical, Ch-11 Dual nature of radiation nad matter, electron emission,Photoelectric effect,		

October	Experimental study of photoelectric effect, Photoelectric effect and wave theory of light, Einstein's photoelectric equation-particle nature of light. Wave nature of matter, Numerical, ch-12 Atoms ; Alpha-particle scattering experiment, Rutherford's model of atom, Bohr model , of hydrogen atom,Electron orbit, Expression for radius of nth possible orbit,Hydrogen line spectra, numerical, Ch-13 Nuclei ; atomic masses and Composition , size of nucleus ,density, Mass-energy relation, mass defect, binding energy ,binding energy nucleon, nuclear force , Nuclear fission, Nuclear fusion,		
November	Ch-14 Semiconductor electronics: material Devices and simple circuit; Energy bands in conductors, semiconductors and insulators , Energy bands in conductors, semiconductors and insulators , Intrinsically semiconductor , Extrinsic semiconductors- p and n type,P-n junction, Semiconductor diode - I-V characteristics in forward and reverse bias, Application of junction diode as rectifier, Practical,		
December	REVISION FOR FINAL EXAM		
January	REVISION FOR FINAL EXAM		
February	REVISION FOR FINAL EXAM		
March	FINAL EXAM		

Teacher Name:

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Yugantar Public School, Rajnandgaon

Breakup Syllabus 2023-24

CLASS : XII Chemistry			
Month	Syllabus	Total Days	Completed/ Not Completed
April	Unit I Solutions : Solutions and types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions colligative properties – relative lowering of vapour, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties Abnormal molecular mass, Van't Hoff factor. Unit II Electrochemistry: Redox reactions Galvanic cells, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells,		
June	Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.		
July	Unit III Chemical Kinetics: Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions) concept of collision theory (elementary idea, no mathematical treatment), Activation energy, Arrhenius equation. Unit IV 'd' and 'f' Block Elements: General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$. Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids – Electronic configuration, oxidation states and comparison with lanthanoids. Unit V Coordination Compounds: Introduction, Werner's theory, ligands, coordination number,		
August	colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. VBT, and CFT; structure and stereoisomerism importance of coordination compounds (in qualitative inclusion, extraction of metals and biological system). Unit VI : Haloalkanes and Haloarenes Haloalkanes: Nomenclature, nature of C-X bond, mechanism of substitution reactions, optical rotation. Haloarenes: Nature of C-X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of – dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT. Solution of exercise questions		

September	methods 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. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses. Unit VIII: Aldehydes, Ketones and Carboxylic Acids Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses. Carboxylic Acids: Nomenclature, acidic nature,		
October	methods of preparation, physical and chemical properties; uses. Unit IX: Organic compounds containing Nitrogen Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions Cyanides and Isocyanides – will be mentioned at relevant places in text. Solution of exercise questions Unit X: Biomolecules Carbohydrates – Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins - Elementary idea of – amino acids, peptide bond, polypeptides, proteins, structure of proteins – primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones – Elementary idea excluding structure. Vitamins – Classification and functions. Nucleic Acids: DNA and RNA.		
November	methods of preparation, physical and chemical properties; uses. Unit IX: Organic compounds containing Nitrogen Amines: 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 in text. Diazonium salts: Preparation, chemical reactions Unit X: Biomolecules Carbohydrates – Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins - Elementary idea of – amino acids, peptide bond, polypeptides, proteins, structure of proteins – primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones – Elementary idea excluding structure. Vitamins – Classification and functions. Nucleic Acids: DNA and RNA.		
December	Revision for first pre-board Pre-Board I begins Rehearsal for annual day begins		
January	Revision Practical exams begins Solution of board's important questions		
February	Revision		
March	Term II Examination		

Teacher Name:

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Yugantar Public School, Rajnandgaon

Breakup Syllabus 2023-24

CLASS - XII BIOLOGY			
Month	Syllabus	Total Days	Completed/ Not Completed
April	<p>Chapter-1: Sexual Reproduction in Flowering Plants Flower structure; development of male gametophyte development of female gametophytepollination - types, agencies and examples; out breeding devices pollen-pistil interaction; double fertilization double fertilization Post fertilization events - development of endosperm and embryo development of seed and formation of fruit; Special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation Doubt clearance session Chapter-2: Human Reproduction :Male reproductive systems female reproductive systems microscopic anatomy of testis ,Gametogenesis- spermatogenesis microscopic anatomy of ovary,Gametogenesis- oogenesis menstrual cycle; fertilisation embryo development upto blastocyst formation, implantation Pregnancy and placenta formation (elementary idea) parturition (elementary idea); lactation (elementary idea). Doubt clearance session</p>		
June	<p>Chapter 3: Reproductive Health: Need for reproductive health prevention of Sexually Transmitted Diseases (STDs)Birth control - need and methods Contraception and medical termination of pregnancy (MTP)amniocentesis; infertility and assisted reproductive technologies - IVFZIFTGIFT (elementary idea for general awareness).Doubt clearance session</p>		
July	<p>unit II Genetics and evolution Chapter-4: Principles of Inheritance and Variation: Heredity and variation: Mendelian inheritance;Heredity and variation: Mendelian inheritance;deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groupspleiotropyelementary idea of polygenic inheritancechromosome theory of inheritance; chromosomes and geneSex determination - in humans, birds and honey beelinkage and crossing overDoubt clearance sessionsex linked inheritance - haemophilia, colour blindnessMendelian disorders in humans - thalassemiachromosomal disorders in humans; Down's syndrome,Turner's and Klinefelter's syndromesDoubt clearance sessionChapter-5: Molecular Basis of InheritanceSearch for genetic material and DNA as genetic materStructure of DNA</p>		
August	<p>Structure of RNADNA packaging DNA replicationCentral Dogma;Transcription,Genetic codeTranslation; gene expression and regulation - lac operonGenome, Human genome projectsDNA fingerprintingDoubt clearance sessionChapter-6: Evolution: Origin of life; biological evolutionevidences for biological evolution (paleontology, comparative anatomy,comparative anatomy, embryology and molecular evidencesDarwin's contribution, modern synthetic theory of evolutionmechanism of evolution - variation (mutation and recombination)natural selection with examples, types of natural selection; Gene flow and genetic drift</p>		

September	Hardy - Weinberg's principle; adaptive radiation; human evolution Doubt clearance session Unit III Biology and human welfare Chapter-7: Human Health and Diseases :Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control Basic concepts of immunology - vaccines;; cancer, HIV and AIDS; Adolescence - drug abuse alcohol abuse Doubt clearance session Chapter-8: Microbes in Human Welfare Microbes in food processing, industrial production Sewage treatment, energy generation microbes as bio-control agents and bio-fertilizer Antibiotics; production and judicious use. Doubt clearance session Unit IV Biotechnology Chapter-9 : Biotechnology - Principles and Processes Genetic Engineering		
October	Chapter-10: Biotechnology and its Applications Application of biotechnology Human insulin and vaccine production stem cell technology, gene therapy genetically modified organisms - Bt crop transgenic animals; biosafety issues biopiracy and patents. Doubt clearance session Unit V Ecology Chapter-11: Organisms and Populations: Population interactions - mutualism, competition Predation, parasitism population attributes - growth, birth rate and death rate, age distribution Doubt clearance session Chapter-12: Ecosystem: Ecosystems: Pattern, components; productivity and decomposition; energy flow pyramids of number, biomass, energy pyramids of energy Doubt clearance session Chapter-13: Biodiversity and its Conservation: Biodiversity-Concept, patterns importance; loss of biodiversity loss of biodiversity biodiversity conservation		
November	hotspots endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves national parks, wildlife, sanctuaries and Ramsar sites. Doubt clearance session Practical		
December	REVISION FOR FINAL EXAM		
January	REVISION FOR FINAL EXAM		
February	REVISION FOR FINAL EXAM		
March	ANNUAL EXAMINATION		

Teacher Name:

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Breakup Syllabus 2023-24

CLASS : XII MATHEMATICS

Month	Syllabus	Total Days	Completed/ Not Completed
April	Matrices,Determinants,Continuity And Differentiability		
June	Application of derivatives,		
July	Integrals,Application of the integrals,Differential Equations		
August	Vector,Three -Dimensional Geometry,		
September	Probability,Linear Programming		
October	Realation & Funcation,Inverse Trigonometric Funcation		
November	REVISION FOR FINAL EXAM		
December	REVISION FOR FINAL EXAM		
January	REVISION FOR FINAL EXAM		
February	REVISION FOR FINAL EXAM		
March	FINAL EXAM		

Teacher Name:

Principal



Yugantar Public School, Rajnandgaon
Breakup Syllabus 2023-24

CLASS : XII IP			
Month	Syllabus	Total Days	Completed / Not Completed
April	Unit I- Planning in sport		
June	Unit -II Children and women in sports		
July	Unit-III Yoga IV- Physical Education and Sports for CWSN with special Needs-Divyand)	Unit- (Children	
August	Unit- V Sports and Nutrition VI -Test and measurment in sports	Unit-	
September	Unit- VII Physiology and injuries in sports Unit- VIII Biomechanics and sports		
October	Unit- IX- Psychology and sports Unit- X Training in Sports		
November	Revision		
December	Revision and Project work Basketball		
January	Revision for Pre Board , Practical Exam		
February	Class Test, Revision for final Exam		
March	Class Test, Revision for final Exam		

Teacher Name:

PRINCIPAL



Yugantar Public School, Rajnandgaon
Breakup Syllabus 2023-24

CLASS : XII PE			
Month	Syllabus	Total Days	Completed / Not Completed
April	Unit I- Planning in sport		
June	Unit -II Children and women in sports		
July	Unit-III Yoga IV- Physical Education and Sports for CWSN with special Needs-Divyand)	Unit- (Children	
August	Unit- V Sports and Nutrition VI -Test and measurment in sports	Unit-	
September	Unit- VII Physiology and injuries in sports Unit- VIII Biomechanics and sports		
October	Unit- IX- Psychology and sports Unit- X Training in Sports		
November	Revision		
December	Revision and Project work Basketball		
January	Revision for Pre Board , Practical Exam		
February	Class Test, Revision for final Exam		
March	Class Test, Revision for final Exam		

Teacher Name:

PRINCIPAL