

VISHWA BHRATI PUBLIC SCHOOL ,GR. NOIDA
SYLLABUS CLASS :XII (2026-27)

SUBJECT- ENGLISH CORE

TEXTBOOK PRESCRIBED- 1. ENGLISH READER- FLAMINGO

SUPPLEMENTARY: VISTAS

MONTH	CHAPTER /BOOK /MAIN SKILL	UNIT/TOPIC	PERIODS
MARCH/ APRIL	FLAMINGO	-THE LAST LESSON BY ALPHONSE DAUDET -MY MOTHER AT SIXTY SIX(POEM)	10
	VISTAS	THE THIRD LEVEL	8
	WRITING SKILL	LETTER TO THE EDITOR, FORMAL INVITATION	10
MAY	FLAMINGO	LOST SPRING	15
		DEEP WATER	12
	VISTAS WRITING SKILLS	JOURNEY TO THE END OF THE EARTH. NOTICE WRITING	9
JULY	FLAMINGO	● POETS AND PANCAKES	14
	VISTAS	● A THING OF BEAUTY(POEM)	6
	WRITING SKILLS	● ON THE FACE OF IT ARTICLE WRITING/ INFORMAL INVITATION	18
AUGUST	FLAMINGO	● POETS AND PANCAKES	16
		● A THING OF BEAUTY(POEM)	8
	VISTAS	● ON THE FACE OF IT	20
	WRITING SKILLS	● JOB APPLICATION	12

SEPTEMBER	FLAMINGO	• THE INTERVIEW • THE ROADSIDE STAND(POEM)	10 10
	VISTAS	• MEMORIES OF CHILDHOOD	15
	WRITING SKILLS	• REPORT WRITING • GOING PLACES	15
OCTOBER		• REVISION PRE BOARD - I	20
NOVEMBER	FLAMINGO	• AUNT JENNIFER'S TIGERS(POEM)	10
	WRITING SKILLS	• REVISION	16
DECEMBER	REVISION	PRE BOARD-II	
JANUARY	REVISION	PRACTICAL	

SUBJECT: PHYSICS**Textbook Prescribed- NCERT**

MONTH	UNIT	CHAPTER	TOPICS	PERIOD
MARCH /APRIL 2024	UNIT-1 ELECTROSTATICS	CHAPTER-1: ELECTRIC CHARGES AND FIELDS	ELECTRIC CHARGES; CONSERVATION OF CHARGE, COULOMB'S LAW-FORCE BETWEEN TWO-POINT CHARGES, FORCES BETWEEN MULTIPLE CHARGES; SUPERPOSITION PRINCIPLE AND CONTINUOUS CHARGE DISTRIBUTION. ELECTRIC FIELD, ELECTRIC FIELD DUE TO A POINT CHARGE, ELECTRIC FIELD LINES, ELECTRIC DIPOLE, ELECTRIC FIELD DUE TO A DIPOLE, TORQUE ON A DIPOLE IN UNIFORM ELECTRIC FIELD. ELECTRIC FLUX, STATEMENT OF GAUSS'S THEOREM AND ITS APPLICATIONS TO FIND FIELD DUE TO INFINITELY LONG STRAIGHT WIRE, UNIFORMLY CHARGED INFINITE PLANE SHEET.	20
		CHAPTER -2: ELECTROSTATIC POTENTIAL AND CAPACITANCE	ELECTRIC POTENTIAL, POTENTIAL DIFFERENCE, ELECTRIC POTENTIAL DUE TO A POINT CHARGE, A DIPOLE AND SYSTEM OF CHARGES; EQUIPOTENTIAL SURFACES, ELECTRICAL POTENTIAL ENERGY OF A SYSTEM OF TWO-POINT CHARGES AND OF ELECTRIC DIPOLE IN AN ELECTROSTATIC FIELD. CONDUCTORS AND INSULATORS, FREE CHARGES AND BOUND CHARGES INSIDE A CONDUCTOR. DIELECTRICS AND ELECTRIC POLARIZATION, CAPACITORS AND CAPACITANCE, COMBINATION OF CAPACITORS IN SERIES AND IN PARALLEL, CAPACITANCE OF A PARALLEL PLATE CAPACITOR WITH AND WITHOUT DIELECTRIC MEDIUM BETWEEN THE PLATES, ENERGY STORED IN A CAPACITOR.	15
MAY 2024	UNIT-II CURRENT ELECTRICITY	CHAPTER-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 RESISTANCE, V-I CHARACTERISTICS (LINEAR AND NONLINEAR), 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 LAWS AND SIMPLE APPLICATIONS, WHEATSTONE BRIDGE, METER BRIDGE (QUALITATIVE IDEAS ONLY). POTENTIOMETER - PRINCIPLE AND ITS APPLICATIONS TO MEASURE POTENTIAL DIFFERENCE AND FOR COMPARING EMF OF TWO CELLS; MEASUREMENT OF	12

			INTERNAL RESISTANCE OF A CELL (QUALITATIVE IDEAS ONLY)	
JULY 2024	UNIT -III MAGNETIC EFFECTS OF CURRENT AND MAGNETISM	CHAPTER-4: MOVING CHARGES AND MAGNETISM CHAPTER-5: MAGNETISM AND MATTER	CONCEPT OF MAGNETIC FIELD, OERSTED'S EXPERIMENT. BIOT - SAVART LAW AND ITS APPLICATION TO THE CURRENT CARRYING CIRCULAR LOOP. AMPERE'S LAW AND ITS APPLICATIONS TO INFINITELY LONG STRAIGHT WIRE. STRAIGHT AND TOROIDAL SOLENOIDS (ONLY QUALITATIVE TREATMENT), FORCE ON A MOVING CHARGE IN UNIFORM MAGNETIC AND ELECTRIC FIELDS. FORCE ON A CURRENT-CARRYING CONDUCTOR IN A UNIFORM MAGNETIC FIELD, FORCE BETWEEN TWO PARALLEL CURRENT-CARRYING CONDUCTORS-DEFINITION OF AMPERE, TORQUE EXPERIENCED BY A CURRENT LOOP IN UNIFORM MAGNETIC FIELD; MOVING COIL GALVANOMETER-ITS CURRENT SENSITIVITY AND CONVERSION TO AMMETER AND VOLTMETER CURRENT LOOP AS A MAGNETIC DIPOLE AND ITS MAGNETIC DIPOLE MOMENT, MAGNETIC DIPOLE MOMENT OF A REVOLVING ELECTRON, BAR MAGNET AS AN EQUIVALENT SOLENOID, MAGNETIC FIELD LINES; EARTH'S MAGNETIC FIELD AND MAGNETIC ELEMENTS.	24
AUG. 2024	UNIT-IV ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENTS	CHAPTER-6: ELECTROMAGNETIC INDUCTION	ELECTROMAGNETIC INDUCTION; FARADAY'S LAWS, INDUCED EMF AND CURRENT; LENZ'S LAW, EDDY CURRENTS. SELF AND MUTUAL INDUCTION.	13
		CHAPTER-7: ALTERNATING CURRENT	ALTERNATING CURRENTS, PEAK AND RMS VALUE OF ALTERNATING CURRENT/VOLTAGE; REACTANCE AND IMPEDANCE; LC OSCILLATIONS (QUALITATIVE TREATMENT ONLY), LCR SERIES CIRCUIT, RESONANCE; POWER IN AC CIRCUITS. AC GENERATOR AND TRANSFORMER.	18
	UNIT – V ELECTROMAGNETIC WAVES	CHAPTER-8: ELECTROMAGNETIC WAVES	BASIC IDEA OF DISPLACEMENT CURRENT, ELECTROMAGNETIC WAVES, THEIR CHARACTERISTICS, THEIR TRANSVERSE NATURE (QUALITATIVE IDEA ONLY). ELECTROMAGNETIC SPECTRUM (RADIO WAVES, MICROWAVES, INFRARED, VISIBLE, ULTRAVIOLET, X-RAYS, GAMMA RAYS) INCLUDING ELEMENTARY FACTS ABOUT THEIR USES.	7
				30

SEP	UNIT – VI OPTICS	CHAPTER–9: RAY OPTICS AND OPTICAL INSTRUMENTS CHAPTER–10: WAVE OPTICS	REFLECTION OF LIGHT, SPHERICAL MIRRORS, MIRROR FORMULA, REFRACTION OF LIGHT, 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 THROUGH A PRISM. OPTICAL INSTRUMENTS: MICROSCOPES AND ASTRONOMICAL TELESCOPES (REFLECTING AND REFRACTING) AND THEIR MAGNIFYING POWERS. WAVEFRONT AND HUYGENS PRINCIPLE, REFLECTION AND REFRACTION OF PLANE WAVES AT A PLANE SURFACE USING WAVE FRONTS. PROOF OF LAWS OF REFLECTION AND REFRACTION USING HUYGENS PRINCIPLE. INTERFERENCE, YOUNG'S DOUBLE SLIT EXPERIMENT AND EXPRESSION FOR FRINGE WIDTH (NO DERIVATION FINAL EXPRESSION ONLY), COHERENT SOURCES AND SUSTAINED INTERFERENCE OF LIGHT, DIFFRACTION DUE TO A SINGLE SLIT, WIDTH OF CENTRAL MAXIMA (QUALITATIVE TREATMENT ONLY)	
	UNIT – VII DUAL NATURE OF RADIATION AND MATTER	CHAPTER–11: DUAL NATURE OF RADIATION AND MATTER	DUAL NATURE OF RADIATION, PHOTOELECTRIC EFFECT, HERTZ AND LENARD'S OBSERVATIONS; EINSTEIN'S PHOTOELECTRIC EQUATION-PARTICLE NATURE OF LIGHT. EXPERIMENTAL STUDY OF PHOTOELECTRIC EFFECT MATTER WAVES-WAVE NATURE OF PARTICLES, DE-BROGLIE RELATION.	8
OCT			PRE- BOARD EXAM I	
NOV. 2024	UNIT VIII ATOMS AND NUCLEI	CHAPTER–12: ATOMS	ALPHA-PARTICLE SCATTERING EXPERIMENT; RUTHERFORD'S MODEL OF ATOM; BOHR MODEL OF HYDROGEN ATOM, EXPRESSION FOR RADIUS OF NTH POSSIBLE ORBIT, VELOCITY AND ENERGY OF ELECTRON IN NTH ORBIT, HYDROGEN LINE SPECTRA (QUALITATIVE TREATMENT ONLY).	8
		CHAPTER–13: NUCLEI	COMPOSITION AND SIZE OF NUCLEUS, NUCLEAR FORCE MASS-ENERGY RELATION, MASS DEFECT; BINDING ENERGY PER NUCLEON AND ITS VARIATION WITH MASS NUMBER; NUCLEAR FISSION, NUCLEAR FUSION.	6
	UNIT-IX	CHAPTER–14: SEMICONDUCT	ENERGY BANDS IN CONDUCTORS, SEMICONDUCTORS AND INSULATORS (QUALITATIVE IDEAS ONLY) INTRINSIC AND	10

	ELECTRONIC DEVICES	OR ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS	EXTRINSIC SEMICONDUCTORS- P AND N TYPE, P-N JUNCTION SEMICONDUCTOR DIODE - I-V CHARACTERISTICS IN FORWARD AND REVERSE BIAS, APPLICATION OF JUNCTION DIODE -DIODE AS A RECTIFIER	
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SUBJECT - CHEMISTRY

Text books prescribed:

- NCERT Text Book Part I & II

MONTH	CHAPTER	TOPICS	NO. OF PERIODS	TOTAL MARKS: 70
MARCH/ APRIL	UNIT 6: HALOALKANES & HALOARENES	HALOALKANES: NOMENCLATURE, NATURE OF C-X BOND, PHYSICAL AND CHEMICAL PROPERTIES, OPTICAL ROTATION MECHANISM OF SUBSTITUTION REACTIONS.	10	6
		HALOARENES: NATURE OF C-X BOND, DIRECTIVE INFLUENCE OF HALOGENS FOR MONOSUBSTITUTED COMPOUNDS ONLY, USES AND ENVIRONMENTAL EFFECTS OF DI, TRI, TETRACHLOROMETHANE, IODOFORM AND DDT		
	UNIT 1: SOLUTIONS	TYPES OF SOLUTIONS, EXPRESSION OF CONCENTRATION OF SOLUTIONS OF SOLIDS IN LIQUIDS, SOLUBILITY OF GASES IN LIQUIDS, SOLID SOLUTIONS, RAOULT'S LAW, COLLIGATIVE PROPERTIES - RELATIVE LOWERING OF VAPOUR PRESSURE, ELEVATION OF BOILING POINT, DEPRESSION OF FREEZING POINT, OSMOTIC PRESSURE, DETERMINATION OF MOLECULAR MASSES USING COLLIGATIVE PROPERTIES, ABNORMAL MOLECULAR MASS, VAN'T HOFF FACTOR.	10	7
	PRACTICAL	REDOX TITRATIONS	5	
MAY	UNIT 7: ALCOHOLS, PHENOLS AND ETHERS	ALCOHOLS: NOMENCLATURE, 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	10	6

		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 8: ALDEHYDES, KETONES & CARBOXYLIC ACIDS	ALDEHYDES & KETONES: NOMENCLATURE, NATURE OF CARBONYL GROUP, METHODS OF PREPARATION, PHYSICAL AND CHEMICAL PROPERTIES, REACTIVITY OF ALPHA HYDROGEN IN ALDEHYDES, USES	7	8
	PRACTICAL	CHROMATOGRAPHY,	1	
		PREPARATION OF SOLS ,CRYSTALLIZATION	2	
JULY	UNIT 8: ALDEHYDES, KETONES & CARBOXYLIC ACIDS	CARBOXYLIC ACIDS: NOMENCLATURE, ACIDIC NATURE, METHODS OF PREPARATION, PHYSICAL AND CHEMICAL PROPERTIES, USES.	3	
	UNIT 9: ORGANIC COMPOUNDS CONTAINING NITROGEN	AMINES AND DIAZONIUM SALTS: NOMENCLATURE, BASIC NATURE, METHODS OF PREPARATION, PHYSICAL AND CHEMICAL PROPERTIES, USES.	10	6
	UNIT 10: BIOMOLECULES	CARBOHYDRATES - CLASSIFICATION (ALDOSES AND KETOSES), MONOSACCHARIDES (GLUCOSE AND FRUCTOSE), D-L CONFIGURATION OLIGOSACCHARIDES (SUCROSE, LACTOSE, MALTOSE), POLYSACCHARIDES (STARCH, CELLULOSE, GLYCOGEN); IMPORTANCE OF CARBOHYDRATES.	12	7
		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.		
	PRACTICAL	SALT ANALYSIS	10	
AUG	UNIT 3: 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.	10	7
	UNIT 2: ELECTROCHEMISTRY	REDOX REACTIONS, EMF OF A CELL, STANDARD ELECTRODE POTENTIAL, NERNST EQUATION AND ITS APPLICATION TO CHEMICAL CELLS, RELATION BETWEEN GIBBS ENERGY CHANGE AND EMF OF A CELL, CONDUCTANCE IN	12	9

		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		
	PRACTICAL	DETECTION OF FUNCTIONAL GROUPS	3	
		TO TEST THE PRESENCE OF CARBOHYDRATES, FATS AND PROTEINS IN THE GIVEN SAMPLES.	2	
		INVESTIGATORY PROJECT	5	
SEPT	UNIT 4: D & 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 $KMnO_4$.	12	7
		LANTHANOIDS - ELECTRONIC CONFIGURATION, OXIDATION STATES, CHEMICAL REACTIVITY AND LANTHANOID CONTRACTION AND ITS CONSEQUENCES.		
		ACTINOIDS - ELECTRONIC CONFIGURATION, OXIDATION STATES AND COMPARISON WITH LANTHANOIDS.		
	PRACTICAL	EFFECT OF CONCENTRATION ON RATE OF REACTION.	1	
		EFFECT OF CONCENTRATION ON EMF OF THE CELL	1	
	PRE-BOARD 1	REVISION		
OCT	UNIT 5: COORDINATION COMPOUNDS	COORDINATION COMPOUNDS - INTRODUCTION, LIGANDS, COORDINATION NUMBER, COLOUR, MAGNETIC PROPERTIES AND SHAPES, IUPAC NOMENCLATURE OF MONONUCLEAR COORDINATION COMPOUNDS.	7	7
NOV	UNIT 5: COORDINATION COMPOUNDS (contd.)	BONDING, WERNER'S THEORY, VBT, AND CFT; STRUCTURE AND STEREOISOMERISM, IMPORTANCE OF COORDINATION COMPOUNDS (IN QUALITATIVE ANALYSIS, EXTRACTION OF METALS AND BIOLOGICAL SYSTEM).	5	
DEC	PRE-BOARD 2	REVISION/EXAMS		
JAN/FEB	FINAL BOARD PRACTICAL	REVISION		

INVESTIGATORY PROJECT: ONE INVESTIGATORY PROJECT HAS TO BE DONE BY EACH STUDENT INDEPENDENTLY.

SUBJECT : BIOLOGY

TEXT BOOK PRESCRIBED: NCERT

MONTH	CHAPTER	TOPIC-SUB UNIT
MARCH/ APRIL	CHAPTER1 SEXUAL REPRODUCTION IN FLOWERING PLANTS CHAPTER-2 HUMAN REPRODUCTI ON	FLOWER –A FASCINATING ORGAN, REPRODUCTIVE STRUCTURES, DOUBLE FERTILIZATION, EMBRYO AND ENDOSPERM FORMATION, APOMIXIS AND PARTHENOGENESIS. MALE AND FEMALE REPRODUCTIVE SYSTEMS; MICROSCOPIC ANATOMY OF TESTIS AND OVARY; GAMETOGENESIS - SPERMATOGENESIS AND OOGENESIS; MENSTRUAL CYCLE; FERTILIZATION, EMBRYO DEVELOPMENT UPTO BLASTOCYST FORMATION, IMPLANTATION; PREGNANCY AND PLACENTA FORMATION ; PARTURITION; LACTATION <u>PRACTICALS –</u> 1. STUDY OF POLLEN GERMINATION 2. FLOWERS ADAPTED TO POLLINATION BY DIFFERENT AGENCIES. 3. CONTROLLED POLLINATION-EMASCULATION, TAGGING AND BAGGING 4. T.S OF TESTIS AND T.S OF OVARY THROUGH PERMANENT SLIDES 5. T.S.. BLASTULA THROUGH PERMANENT SLIDE 6. PREPARE A TEMPORARY MOUNT OF ONION ROOT TIP TO STUDY MITOSIS 7. STUDY OF MEIOSIS THROUGH PERMANENT SLIDES 8. STUDY OF MENDELIAN INHERITANCE USING SEEDS OF DIFFERENT COLOUR/SIZES

MAY	CHAPTER-3: REPRODUCTIVE HEALTH CHAPTER-4: PRINCIPLES OF INHERITANCE AND VARIATION	NEED FOR REPRODUCTIVE HEALTH AND PREVENTION OF SEXUALLY TRANSMITTED DISEASES (STDs); BIRTH CONTROL - NEED AND METHODS, CONTRACEPTION AND MEDICAL TERMINATION OF PREGNANCY (MTP); AMNIOCENTESIS; INFERTILITY AND ASSISTED REPRODUCTIVE TECHNOLOGIES - IVF, ZIFT, GIFT (ELEMENTARY IDEA FOR GENERAL AWARENESS). HEREDITY AND VARIATION: MENDELIAN INHERITANCE; DEVIATIONS FROM MENDELISM – INCOMPLETE DOMINANCE, CO-DOMINANCE, MULTIPLE ALLELES AND INHERITANCE OF BLOOD GROUPS, PLEIOTROPY; ELEMENTARY IDEA OF POLYGENIC INHERITANCE; CHROMOSOME THEORY OF INHERITANCE; CHROMOSOMES AND GENES; SEX DETERMINATION - IN HUMANS, BIRDS AND HONEY BEE; LINKAGE AND CROSSING OVER; SEX LINKED INHERITANCE - HAEMOPHILIA, COLOUR BLINDNESS; MENDELIAN DISORDERS IN HUMANS - THALASSEMIA; CHROMOSOMAL DISORDERS IN HUMANS; DOWN'S SYNDROME, TURNER'S AND KLINEFELTER'S SYNDROMES.
JUL	CHAPTER-5: MOLECULAR BASIS OF INHERITANCE	SEARCH FOR GENETIC MATERIAL AND DNA AS GENETIC MATERIAL; STRUCTURE OF DNA AND RNA; DNA PACKAGING; DNA REPLICATION; CENTRAL DOGMA; TRANSCRIPTION, GENETIC CODE, TRANSLATION; GENE EXPRESSION AND REGULATION - LAC OPERON; GENOME, HUMAN AND RICE GENOME PROJECTS; DNA

	CHAPTER-6: EVOLUTION	FINGERPRINTING. ORIGIN OF LIFE; BIOLOGICAL EVOLUTION AND EVIDENCES FOR BIOLOGICAL EVOLUTION (PALEONTOLOGY, COMPARATIVE ANATOMY, EMBRYOLOGY AND MOLECULAR EVIDENCES); DARWIN'S CONTRIBUTION, MODERN SYNTHETIC THEORY OF EVOLUTION; MECHANISM OF EVOLUTION - VARIATION (MUTATION AND RECOMBINATION) AND NATURAL SELECTION WITH EXAMPLES, TYPES OF NATURAL SELECTION; GENE FLOW AND GENETIC DRIFT; HARDY - WEINBERG'S PRINCIPLE; ADAPTIVE RADIATION; HUMAN EVOLUTION.
AUG	CHAPTER-7: HUMAN HEALTH AND DISEASES CHAPTER-8: MICROBES IN HUMAN WELFARE	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 AND ALCOHOL ABUSE. MICROBES IN FOOD PROCESSING, INDUSTRIAL PRODUCTION, SEWAGE TREATMENT, ENERGY GENERATION AND MICROBES AS BIO-CONTROL AGENTS AND BIO-FERTILIZERS. ANTIBIOTICS; PRODUCTION AND JUDICIOUS USE. REVISION FOR TERM I
SEP	CHAPTER-9: BIOTECHNOLOGY – PRINCIPLES AND PROCESSES CHAPTER-10: BIOTECHNOLOGY AND ITS APPLICATIONS	GENETIC ENGINEERING (RECOMBINANT DNA TECHNOLOGY). APPLICATION OF BIOTECHNOLOGY IN HEALTH AND AGRICULTURE: HUMAN INSULIN AND VACCINE PRODUCTION, STEM CELL TECHNOLOGY, GENE THERAPY; GENETICALLY MODIFIED ORGANISMS - BT CROPS; TRANSGENIC ANIMALS; BIOSAFETY ISSUES, BIOPIRACY AND PATENTS.

OCT	CHAPTER-11: ORGANISMS AND POPULATIONS CHAPTER-12: ECOSYSTEM CHAPTER-13: BIODIVERSITY AND ITS CONSERVATION	POPULATION INTERACTIONS - MUTUALISM, COMPETITION, PREDATION, PARASITISM; POPULATION ATTRIBUTES - GROWTH, BIRTH RATE AND DEATH RATE, AGE DISTRIBUTION. (TOPICS EXCLUDED: ORGANISM AND ITS ENVIRONMENT, MAJOR ABIOTIC FACTORS, RESPONSES TO ABIOTIC FACTORS, ADAPTATIONS) ECOSYSTEMS: PATTERNS, COMPONENTS; PRODUCTIVITY AND DECOMPOSITION; ENERGY FLOW; PYRAMIDS OF NUMBER, BIOMASS, ENERGY (TOPICS EXCLUDED: ECOLOGICAL SUCCESSION AND NUTRIENT CYCLES). BIODIVERSITY-CONCEPT, PATTERNS, IMPORTANCE; LOSS OF BIODIVERSITY; BIODIVERSITY CONSERVATION; HOTSPOTS, ENDANGERED ORGANISMS, EXTINCTION, RED DATA BOOK, SACRED GROVES, BIOSPHERE RESERVES, NATIONAL PARKS, WILDLIFE, SANCTUARIES AND RAMSAR SITES.
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SUBJECT : COMPUTER SCIENCE**TEXT BOOK PRESCRIBED: NCERT****Reference Book: Introduction to computer science by Preeti Arora**

MONTH	TOPIC	UNIT/SUBUNITS
MARCH/ APRIL	UNIT 1: PROGRAMMING AND COMPUTATIONAL THINKING (PCT-2)	● REVISION OF THE BASICS OF PYTHON ● FUNCTIONS: SCOPE, PARAMETER PASSING, DEFAULT PARAMETERS, POSITIONAL PARAMETERS, MUTABLE/IMMUTABLE PROPERTIES OF DATA OBJECTS, PASS ARRAYS TO FUNCTIONS, RETURN VALUES, ● FLOW OF EXECUTION, SCOPE OF A VARIABLE (GLOBAL SCOPE, LOCAL SCOPE) ● FUNCTIONS MODULES: MATH, RANDOM, STATISTICS, STRING AND OTHER GENERAL BUILT-IN FUNCTIONS.
MAY	UNIT 1: PROGRAMMING AND COMPUTATIONAL THINKING (PCT-2)	● EXCEPTION HANDLING: INTRODUCTION, HANDLING EXCEPTIONS USING TRY-EXCEPT-FINALLY BLOCKS ● INTRODUCTION TO FILES, TYPES OF FILES (TEXT FILE, BINARY FILE, CSV FILE), RELATIVE AND ABSOLUTE PATHS ● TEXT FILE: OPENING A TEXT FILE, TEXT FILE OPEN MODES (R, R+, W, W+, A, A+), CLOSING A TEXT FILE, OPENING A FILE USING WITH CLAUSE, WRITING/APPENDING DATA TO A TEXT FILE USING WRITE() AND WRITELINES(), READING FROM A TEXT FILE USING READ(), READLINE() AND READLINES(), SEEK AND TELL METHODS, MANIPULATION OF DATA IN A TEXT FILE
JULY	UNIT 1: PROGRAMMING AND COMPUTATIONAL THINKING (PCT-2)	● BINARY FILE: BASIC OPERATIONS ON A BINARY FILE: OPEN USING FILE OPEN MODES (RB, RB+, WB, WB+, AB, AB+), CLOSE A BINARY FILE, IMPORT PICKLE MODULE, DUMP() AND LOAD() METHOD, READ, WRITE/CREATE, SEARCH, APPEND AND UPDATE OPERATIONS IN A BINARY FILE ● CSV FILE: IMPORT CSV MODULE, OPEN / CLOSE CSV FILE, WRITE INTO A CSV FILE USING WRITER(),WRITEROW(),WRITEROWS() AND READ FROM A CSV FILE USING READER()
AUGUST	DATA STRUCTURE	● DATA STRUCTURE: STACK, OPERATIONS ON STACK (PUSH & POP), IMPLEMENTATION OF STACK USING LIST.
SEP	UNIT III: DATABASE MANAGEMENT	● DATABASE CONCEPTS: INTRODUCTION TO DATABASE CONCEPTS AND ITS NEED ● RELATIONAL DATA MODEL: RELATION, ATTRIBUTE, TUPLE, DOMAIN, DEGREE, CARDINALITY, KEYS

		(CANDIDATE KEY, PRIMARY KEY, ALTERNATE KEY, FOREIGN KEY) - STRUCTURED QUERY LANGUAGE: INTRODUCTION, DATA DEFINITION LANGUAGE AND DATA MANIPULATION LANGUAGE, DATA TYPE (CHAR(N), VARCHAR(N), INT, FLOAT, DATE), CONSTRAINTS (NOT NULL, UNIQUE, PRIMARY KEY), CREATE DATABASE, USE DATABASE, SHOW DATABASES, DROP DATABASE, SHOW TABLES, CREATE TABLE, DESCRIBE TABLE, ALTER TABLE (ADD AND REMOVE AN ATTRIBUTE, ADD AND REMOVE PRIMARY KEY), DROP TABLE, INSERT, DELETE, SELECT, OPERATORS (MATHEMATICAL, RELATIONAL AND LOGICAL), ALIASING, - DISTINCT CLAUSE, WHERE CLAUSE, IN, BETWEEN, ORDER BY, MEANING OF NULL, IS NULL, IS NOT NULL, LIKE, UPDATE COMMAND, DELETE COMMAND, AGGREGATE FUNCTIONS (MAX, MIN, AVG, SUM, COUNT), GROUP BY, HAVING CLAUSE, JOINS: CARTESIAN PRODUCT ON TWO TABLES, EQUI-JOIN AND NATURAL JOIN - INTERFACE OF PYTHON WITH AN SQL DATABASE: CONNECTING SQL WITH PYTHON, PERFORMING INSERT, UPDATE, DELETE QUERIES USING CURSOR, DISPLAY DATA BY USING CONNECT(), CURSOR(), EXECUTE(), COMMIT(), FETCHONE(), FETCHALL(), ROWCOUNT, CREATING DATABASE CONNECTIVITY APPLICATIONS, USE OF %S FORMAT SPECIFIER OR FORMAT() TO PERFORM QUERIES
OCT		PRE BOARD EXAMINATION - I
NOV	UNIT II: COMPUTER NETWORKS	- EVOLUTION OF NETWORKING: INTRODUCTION TO COMPUTER NETWORKS, EVOLUTION OF NETWORKING (ARPANET, NSFNET, INTERNET) - DATA COMMUNICATION TERMINOLOGIES: CONCEPT OF COMMUNICATION, COMPONENTS OF DATA COMMUNICATION (SENDER, RECEIVER, MESSAGE, COMMUNICATION MEDIA, PROTOCOLS), MEASURING CAPACITY OF COMMUNICATION MEDIA (BANDWIDTH, DATA TRANSFER RATE), IP ADDRESS, SWITCHING TECHNIQUES (CIRCUIT SWITCHING, PACKET SWITCHING) - TRANSMISSION MEDIA: WIRED COMMUNICATION MEDIA (TWISTED PAIR CABLE, CO-AXIAL CABLE, FIBER-OPTIC CABLE), WIRELESS MEDIA (RADIO WAVES, MICRO WAVES, INFRARED WAVES) - NETWORK DEVICES (MODEM, ETHERNET CARD, RJ45, REPEATER, HUB, SWITCH, ROUTER, GATEWAY, WIFI CARD) - NETWORK TOPOLOGIES AND NETWORK TYPES: TYPES OF NETWORKS (PAN, LAN, MAN, WAN), NETWORKING TOPOLOGIES (BUS, STAR, TREE)

		● NETWORK PROTOCOL: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VOIP ● INTRODUCTION TO WEB SERVICES: WWW, HYPER TEXT MARKUP LANGUAGE (HTML), EXTENSIBLE MARKUP LANGUAGE (XML), DOMAIN NAMES, URL, WEBSITE, WEB BROWSER, WEB SERVERS, WEB HOSTING.
	PRE BOARD EXAM – II	

SUBJECT : GEOGRAPHY

**BOOKS: 1) INDIA PEOPLE AND ECONOMY
2) FUNDAMENTALS OF HUMAN GEOGRAPHY
3) PRACTICAL WORK IN GEOGRAPHY – PART 2**

MONTH	CHAPTER	UNIT/SUBUNITS	
MARCH/ APRIL	POPULATION: DISTRIBUTION, DENSITY, GROWTH AND COMPOSITION (INDIA PEOPLE AND ECONOMY)	POPULATION: DISTRIBUTION, DENSITY AND GROWTH; COMPOSITION OF POPULATION - LINGUISTIC, RELIGIOUS GROUPS, GENDER, RURAL-URBAN AND OCCUPATIONAL-REG IONAL VARIATIONS IN GROWTH OF POPULATION	10
	HUMAN GEOGRAPHY- NATURE AND SCOPE (FUNDAMENTALS OF HUMAN GEOGRAPHY)	NATURE, ENVIRONMENTAL DETERMINISM, POSSIBILISM FIELDS AND SUB-FIELDS OF HUMAN GEOGRAPHY	07
	HUMAN SETTLEMENTS ((INDIA PEOPLE AND ECONOMY)	SETTLEMENT TYPES - RURAL AND URBAN; MORPHOLOGY OF CITIES (CASE STUDY); DISTRIBUTION OF MEGA CITIES; PROBLEMS OF HUMAN SETTLEMENTS IN DEVELOPING COUNTRIES.	8

	THE WORLD POPULATION : DISTRIBUTION, DENSITY AND GROWTH (FUNDAMENTALS OF HUMAN GEOGRAPHY)	PATTERNS OF POPULATION DISTRIBUTION, DENSITY OF POPULATION, POPULATION CHANGE, DEMOGRAPHIC TRANSITION THEORY, POPULATION CONTROL MEASURES	
MAY	PRACTICAL – 1 HUMAN DEVELOPMENT (FUNDAMENTALS OF HUMAN GEOGRAPHY) PRIMARY ACTIVITIES (FUNDAMENTALS OF HUMAN GEOGRAPHY) LAND RESOURCES AND AGRICULTURE (INDIA PEOPLE AND ECONOMY) WATER RESOURCES (INDIA PEOPLE AND	DATA ITS SOURCE AND COMPILATION HUMAN DEVELOPMENT - CONCEPT; SELECTED INDICATORS,(GROWTH AND DEVELOPMENT, THE FOUR PILLARS OF HUMAN DEVELOPMENTS, APPROACHES OF HUMAN DEVELOPMENTS, MEASURING HUMAN DEVELOPMENTS) INTERNATIONAL COMPARISONS PRIMARY ACTIVITIES - CONCEPT AND CHANGING TRENDS; GATHERING, PASTORAL, MINING, SUBSISTENCE AGRICULTURE, MODERN AGRICULTURE; PEOPLE ENGAGED IN AGRICULTURAL AND ALLIED ACTIVITIES - SOME EXAMPLES FROM SELECTED COUNTRIES. SUGARCANE AND RUBBER) AND RESOURCES- GENERAL LAND USE; AGRICULTURAL LAND USE, GEOGRAPHICAL CONDITIONS AND DISTRIBUTION OF MAJOR CROPS (WHEAT, RICE, TEA, COFFEE, OTTON, JUTE, AGRICULTURAL DEVELOPMENT AND PROBLEMS. WATER RESOURCES-AVAILABILITY AND UTILIZATION- IRRIGATION, DOMESTIC, INDUSTRIAL AND OTHER USES; SCARCITY OF WATER AND	03 07 12 09 09

	ECONOMY)	CONSERVATION METHODS-RAIN WATER HARVESTING AND WATERSHED MANAGEMENT.	
JULY	PRACTICAL – 2 SECONDARY ACTIVITIES (FUNDAMENTALS OF HUMAN GEOGRAPHY MINERAL AND ENERGY RESOURCES (INDIA PEOPLE AND ECONOMY) PLANNING AND SUSTAINABLE DEVELOPMENT IN INDIAN CONTEXT (INDIA:PEOPLE AND ECONOMY)	DATA PROCESSING(CALCULATE MEAN ,MEDIAN AND MODE) CALCULATE MEASURES OF CENTRAL TENDENCY SECONDARY ACTIVITIES-CONCEPT; MANUFACTURING: TYPES - HOUSEHOLD, SMALL SCALE, LARGE SCALE; AGRO BASED AND MINERAL BASED INDUSTRIES; PEOPLE ENGAGED IN SECONDARY ACTIVITIES - SOME EXAMPLES FROM SELECTED COUNTRIES. MINERAL AND ENERGY RESOURCES- DISTRIBUTION OF METALLIC (IRON ORE, COPPER, BAUXITE, MANGANESE); NON-METALLIC (MICA, SALT) MINERALS; CONVENTIONAL (COAL, PETROLEUM, NATURAL GAS AND HYDROELECTRICITY) AND NON-CONVENTIONAL ENERGY SOURCES (SOLAR, WIND, BIOGAS) AND CONSERVATION. PLANNING IN INDIA- TARGET GROUP AREA PLANNING (CASE STUDY); IDEA OF SUSTAINABLE DEVELOPMENT (CASE STUDY).	05 10 09 07

AUGUST	PRACTICAL -3	REPRESENTATION OF DATA.(TO REPRESENT DATA GRAPHICALLY USING DIFFERENT TECHNIQUES).CONSTRUCTION OF LINE GRAPH ,BAR GRAPH, POLY GRAPH, LINE AND BAR GRAPH ,MULTIPLE BAR DIAGRAM ,PIE DIAGRAM. THEMATIC MAPS- DOT MAP,CHOROPLETH MAP AND ISOPLETH MAP.	04
	TRANSPORT AND COMMUNICATION (INDIA PEOPLE AND ECONOMY)	TRANSPORT AND COMMUNICATION-ROADS, RAILWAYS, WATERWAYS AND AIRWAYS: OIL AND GAS PIPELINES; GEOGRAPHICAL INFORMATION AND COMMUNICATION NETWORKS.	11
	INTERNATIONAL TRADE (INDIA PEOPLE AND ECONOMY)	INTERNATIONAL TRADE- CHANGING PATTERN OF INDIA'S FOREIGN TRADE; SEA PORTS AND THEIR HINTERLAND AND AIRPORTS.	09
	TERTIARY AND QUATERNARY ACTIVITIES (FUNDAMENTALS OF HUMAN GEOGRAPHY)	TERTIARY ACTIVITIES-CONCEPT; TRADE, TRANSPORT AND TOURISM; SERVICES; PEOPLE ENGAGED IN TERTIARY ACTIVITIES - SOME EXAMPLES FROM SELECTED COUNTRIES. QUATERNARY ACTIVITIES-CONCEPT; PEOPLE ENGAGED IN QUATERNARY ACTIVITIES - CASE STUDY FROM SELECTED COUNTRIES.	10
SEP	TRANSPORT AND COMMUNICATION (FUNDAMENTALS OF HUMAN GEOGRAPHY)	LAND TRANSPORT - ROADS, RAILWAYS; TRANS-CONTINENTAL RAILWAYS. WATER TRANSPORT- INLAND WATERWAYS; MAJOR OCEAN ROUTES.AIR TRANSPORT- INTERCONTINENTAL AIR ROUTES. OIL AND GAS PIPELINES.	15

	SATELLITE COMMUNICATION AND CYBER SPACE- IMPORTANCE AND USAGE FOR GEOGRAPHICAL INFORMATION; USE OF GPS.	
OCT. /NOV	PRE-BOARD EXAM-I 	
OCT. /NOV	INTERNATIONAL TRADE (FUNDAMENTALS OF HUMAN GEOGRAPHY) GEOGRAPHICAL PERSPECTIVE ON SELECTED ISSUES AND PROBLEMS. (INDIA PEOPLE AND ECONOMY)	INTERNATIONAL TRADE-BASES AND CHANGING PATTERNS; PORTS AS GATEWAYS OF INTERNATIONAL TRADE, ROLE OF WTO IN INTERNATIONAL TRADE. OCEAN: NATIONAL RIGHTS AND INTERNATIONAL TREATIES ENVIRONMENTAL POLLUTION ,URBAN WASTE DISPOSAL. URBANISATION ,RURAL URBAN MIGRATION ,PROBLEMS OF SLUMS, LAND DEGRADATION (MAPS AND PROJECT WORKS AS

		PER CBSE GUIDELINES)	
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SUBJECT – ACCOUNTANCY

TEXT BOOKS PRESCRIBED: NCERT; T.S. GREWAL BY SULTAN CHAND PUBLICATION

MONTH	TOPIC	SUB TOPIC	
MARCH/ APRIL	UNIT 1: ACCOUNTING FOR PARTNERSHIP FIRMS	• PARTNERSHIP: FEATURES, PARTNERSHIP DEED • PROVISIONS OF THE INDIAN PARTNERSHIP ACT 1932 IN THE ABSENCE OF PARTNERSHIP DEED • FIXED V/S FLUCTUATING CAPITAL ACCOUNTS • PREPARATION OF PROFIT AND LOSS APPROPRIATION ACCOUNT- DIVISION OF PROFIT AMONG PARTNERS • GUARANTEE OF PROFITS • PAST ADJUSTMENTS (RELATING TO INTEREST ON CAPITAL, INTEREST ON DRAWING, SALARY AND PROFIT SHARING RATIO) • GOODWILL: NATURE, FACTORS AFFECTING AND • METHODS OF VALUATION - AVERAGE PROFIT, SUPER PROFIT AND CAPITALIZATION • NOTE: INTEREST ON PARTNER'S LOAN IS TO BE TREATED AS A CHARGE AGAINST PROFITS. • GOODWILL TO BE ADJUSTED THROUGH PARTNERS' CAPITAL/ CURRENT ACCOUNT OR BY RAISING AND WRITING OFF GOODWILL (AS 26)	35

MAY	UNIT 1: ACCOUNTING FOR PARTNERSHIP FIRMS	- ACCOUNTING FOR PARTNERSHIP FIRMS - RECONSTITUTION AND DISSOLUTION. - CHANGE IN THE PROFIT SHARING RATIO AMONG THE EXISTING PARTNERS - SACRIFICING RATIO, GAINING RATIO, ACCOUNTING FOR REVALUATION OF ASSETS AND REASSESSMENT OF LIABILITIES AND TREATMENT OF RESERVES AND ACCUMULATED PROFITS. PREPARATION OF REVALUATION ACCOUNT AND BALANCE SHEET. - ADMISSION OF A PARTNER - EFFECT OF ADMISSION OF A PARTNER ON CHANGE IN THE PROFIT SHARING RATIO, TREATMENT OF GOODWILL (AS PER AS 26), TREATMENT FOR REVALUATION OF ASSETS AND RE- ASSESSMENT OF LIABILITIES, TREATMENT OF RESERVES AND ACCUMULATED PROFITS, ADJUSTMENT OF CAPITAL ACCOUNTS AND PREPARATION OF BALANCE SHEET.	4 0
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JULY	UNIT 1: ACCOUNTING FOR PARTNERSHIP FIRMS	• RETIREMENT AND DEATH OF A PARTNER: EFFECT OF RETIREMENT / DEATH OF A PARTNER ON CHANGE IN PROFIT SHARING RATIO, TREATMENT OF GOODWILL (AS PER AS 26), TREATMENT FOR REVALUATION OF ASSETS AND REASSESSMENT OF LIABILITIES, ADJUSTMENT OF ACCUMULATED PROFITS AND RESERVES, ADJUSTMENT OF CAPITAL ACCOUNTS AND PREPARATION OF BALANCE SHEET. PREPARATION OF LOAN ACCOUNT OF THE RETIRING PARTNER. • CALCULATION OF DECEASED PARTNER'S SHARE OF PROFIT TILL THE DATE OF DEATH. PREPARATION OF DECEASED PARTNER'S CAPITAL ACCOUNT AND HIS EXECUTOR'S ACCOUNT. • DISSOLUTION OF A PARTNERSHIP FIRM: MEANING OF DISSOLUTION OF PARTNERSHIP AND PARTNERSHIP FIRM, TYPES OF DISSOLUTION OF A FIRM. SETTLEMENT OF ACCOUNTS - PREPARATION OF REALIZATION ACCOUNT, AND OTHER RELATED ACCOUNTS: CAPITAL ACCOUNTS OF PARTNERS AND CASH/BANK A/C (EXCLUDING PIECEMEAL DISTRIBUTION, SALE TO A COMPANY AND INSOLVENCY OF PARTNER(S)). NOTE: (i) THE REALIZED VALUE OF EACH ASSET MUST BE GIVEN AT THE TIME OF DISSOLUTION. (ii) IN CASE, THE REALIZATION EXPENSES ARE BORNE BY A PARTNER, CLEAR INDICATION SHOULD BE GIVEN REGARDING THE PAYMENT THEREOF	30
AUG	UNIT-2 ACCOUNTING FOR COMPANIES	• ACCOUNTING FOR SHARE CAPITAL • SHARE AND SHARE CAPITAL: NATURE AND TYPES. • ACCOUNTING FOR SHARE CAPITAL: ISSUE AND ALLOTMENT OF EQUITY AND PREFERENCES SHARES. • PUBLIC SUBSCRIPTION OF SHARES – OVER SUBSCRIPTION AND UNDER SUBSCRIPTION OF SHARES; ISSUE AT PAR AND AT PREMIUM, CALLS IN ADVANCE AND ARREARS (EXCLUDING INTEREST), ISSUE OF SHARES FOR CONSIDERATION OTHER THAN CASH. • CONCEPT OF PRIVATE PLACEMENT AND EMPLOYEE STOCK OPTION PLAN (ESOP). ACCOUNTING TREATMENT OF FORFEITURE AND RE ISSUE OF SHARES. DISCLOSURE OF SHARE CAPITAL IN THE BALANCE SHEET OF A COMPANY. ACCOUNTING FOR	40

		DEBENTURES • DEBENTURES: ISSUE OF DEBENTURES AT PAR, AT A PREMIUM AND AT A DISCOUNT. ISSUE OF DEBENTURES FOR CONSIDERATION OTHER THAN CASH; ISSUE OF DEBENTURES WITH TERMS OF REDEMPTION; DEBENTURES AS COLLATERAL SECURITY CONCEPT, INTEREST ON DEBENTURES. WRITING OFF DISCOUNT / LOSS ON ISSUE OF DEBENTURES. NOTE: DISCOUNT OR LOSS ON ISSUE OF DEBENTURES TO BE WRITTEN OFF IN THE YEAR DEBENTURES ARE ALLOTTED FROM SECURITY PREMIUM RESERVE/CAPITAL RESERVE/STATEMENT OF PROFIT AND LOSS AS FINANCIAL COST (AS 16) IN THAT ORDER.	
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		• PROFITABILITY RATIOS: GROSS PROFIT RATIO, OPERATING RATIO, OPERATING PROFIT RATIO, NET PROFIT RATIO AND RETURN ON INVESTMENT	
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	UNIT 4: CASH FLOW STATEMENT	NOTE: N.P. RATIO IS TO BE CALCULATED ON THE PROFIT BEFORE AND AFTER TAX. MEANING, OBJECTIVES AND PREPARATION (AS PER AS 3 (REVISED) (INDIRECT METHOD ONLY) NOTE: (i) ADJUSTMENTS RELATING TO DEPRECIATION AND AMORTIZATION, PROFIT OR LOSS ON SALE OF ASSETS INCLUDING INVESTMENTS, DIVIDEND (BOTH FINAL AND INTERIM) AND TAX. (ii) BANK OVERDRAFT AND CASH CREDIT TO BE TREATED AS SHORT TERM BORROWINGS. (iii) CURRENT INVESTMENTS TO BE TAKEN AS MARKETABLE SECURITIES UNLESS OTHERWISE SPECIFIED. NOTE: PREVIOUS YEARS' PROPOSED DIVIDEND TO BE GIVEN EFFECT, AS PRESCRIBED IN AS-4, EVENTS OCCURRING AFTER THE BALANCE SHEET DATE. CURRENT YEARS' PROPOSED DIVIDEND WILL BE ACCOUNTED FOR IN THE NEXT YEAR AFTER IT IS DECLARED TO THE SHAREHOLDERS.	20
OCT		PRE – BOARD EXAMINATION	
NOV	SPECIFIC PROJECT (ANY ONE)	- ACCOUNTING RATIOS - SEGMENT REPORTS - CASH FLOW STATEMENT - COMPARATIVE AND COMMON SIZE STATEMENTS	20

SUBJECT: BUSINESS STUDIES

Text Book Prescribed: NCERT

MONTH	TOPIC	SUBTOPICS	PERIODS
MARCH/ APRIL	PART A: PRINCIPLES AND FUNCTIONS OF MANAGEMENT	• MANAGEMENT- CONCEPT, OBJECTIVES, AND IMPORTANCE • MANAGEMENT AS SCIENCE, ART AND PROFESSION • LEVELS OF MANAGEMENT • MANAGEMENT FUNCTIONS-PLANNING, ORGANIZING, STAFFING, DIRECTING AND CONTROLLING • COORDINATION-CONCEPT AND IMPORTANCE • PRINCIPLES OF MANAGEMENT-CONCEPT AND SIGNIFICANCE • FAYOL'S PRINCIPLES OF MANAGEMENT • TAYLOR'S SCIENTIFIC MANAGEMENT-PRINCIPLES AND TECHNIQUES	12
	UNIT1: NATURE AND SIGNIFICANC E OF MANAGEME NT		14
	UNIT2: PRINCIPLES OF MANAGEMENT	COMPARE THE CONTRIBUTION OF FAYOL AND TAYLOR	
MAY	UNIT3: BUSINESS ENVIRONMENT	• BUSINESS ENVIRONMENT- CONCEPT AND IMPORTANCE • DIMENSIONS OF BUSINESS ENVIRONMENT-ECONOMIC, SOCIAL, TECHNOLOGICAL, POLITICAL AND LEGAL • DEMONETIZATION-CONCEPT AND FEATURES	• 12
	PART B: BUSINESS FINANCE AND MARKETING	• MARKETING–CONCEPT ,FEATURES ,FUNCTIONS AND PHILOSOPHIES • MARKETING MIX–CONCEPT AND ELEMENTS • PRODUCT-BRANDING ,LABELING AND PACKAGING– CONCEPT	30
	UNIT 11: MARKETING		

JULY	UNIT 12: CONSUMER PROTECTION	• PRICE-CONCEPT ,FACTORS DETERMINING PRICE • PHYSICAL DISTRIBUTION–CONCEPT ,COMPONENTS AND CHANNELS OF DISTRIBUTION • PROMOTION–CONCEPT AND ELEMENTS - ADVERTISING, SALES PROMOTION AND PUBLIC RELATIONS • UNDERSTAND THE CONCEPT OF A CONSUMER ACCORDING TO THE CONSUMER PROTECTION ACT, 2019, CONCEPT, IMPORTANCE, SCOPE OF CONSUMER PROTECTION ACT, 2019 • EXPLAIN THE CONSUMER RIGHTS • UNDERSTAND THE RESPONSIBILITIES OF CONSUMERS • UNDERSTAND WHO CAN FILE A COMPLAINT AND AGAINST WHOM? • DISCUSS THE LEGAL REDRESSAL MACHINERY UNDER CONSUMER PROTECTION ACT, 2019. • EXAMINE THE REMEDIES AVAILABLE TO THE CONSUMER UNDER CONSUMER PROTECTION ACT, 2019 • CONSUMER AWARENESS - ROLE OF CONSUMER ORGANIZATIONS AND NON-GOVERNMENTAL ORGANIZATIONS (NGOS) • DESCRIBE THE ROLE OF CONSUMER ORGANIZATIONS AND NGOS IN PROTECTING CONSUMER	12
	UNIT4: PLANNING	• CONCEPT ,IMPORTANCE AND LIMITATION • PLANNING PROCESS, SINGLE USE AND STANDING PLANS. OBJECTIVES, STRATEGY, POLICY, PROCEDURE, METHOD RULE, BUDGET AND PROGRAMME	15
	UNIT5: ORGANIZING	• CONCEPT AND IMPORTANCE • ORGANIZING PROCESS, STRUCTURE OF ORGANIZATION- FUNCTIONAL AND DIVISIONAL CONCEPT. • FORMAL AND INFORMAL ORGANIZATION-CONCEPT • DELEGATION :CONCEPT ,ELEMENTS AND IMPORTANCE • DECENTRALIZATION: CONCEPT AND IMPORTANCE • DIFFERENCE BETWEEN DELEGATION & DECENTRALIZATION	16

AUGUST	UNIT6: STAFFING ● CONCEPT AND IMPORTANCE OF STAFFING STAFFING AS A PART OF HUMAN RESOURCE MANAGEMENT ● STAFFING PROCESS ,RECRUITMENT PROCESS ,SELECTION– PROCESS ● TRAINING AND DEVELOPMENT - CONCEPT AND IMPORTANCE ,METHODS OF TRAINING-ON THE JOB AND OFF THE JOB - VESTIBULE TRAINING, APPRENTICESHIP TRAINING AND INTERNSHIP TRAINING, INDUCTION TRAINING PART B: BUSINESS FINANCE AND MARKETING UNIT9: FINANCIAL MANAGEMENT ● CONCEPT, ROLE AND OBJECTIVES OF FINANCIAL MANAGEMENT FINANCIAL DECISION: INVESTMENT ,FINANCING AND DIVIDEND- MEANING AND FACTORS	20
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SEPTEMBER	PART B: BUSINESS FINANCE AND MARKETING UNIT 9: FINANCIAL MANAGEMENT UNIT10: FINANCIAL MARKETS	(CONTINUED) • FINANCIAL PLANNING-CONCEPT AND IMPORTANCE • CAPITAL STRUCTURE–CONCEPT AND FACTORS AFFECTING CAPITAL STRUCTURE • FIXED AND WORKING CAPITAL-CONCEPT AND FACTORS AFFECTING THEIR REQUIREMENTS • FINANCIAL MARKETS :CONCEPT ,FUNCTIONS AND TYPES • CAPITAL MARKET AND ITS TYPES (PRIMARY AND SECONDARY) • STOCK EXCHANGE –FUNCTIONS AND TRADING PROCEDURE SECURITIES AND EXCHANGE BOARD OF INDIA(SEBI)- OBJECTIVES AND FUNCTIONS	18
OCTOBER		PRE- BOARD I EXAMINATION	
NOVEMBER	UNIT7: DIRECTING UNIT8: CONTROLLING	• CONCEPT AND IMPORTANCE, ELEMENTS OF DIRECTING • MOTIVATION-CONCEPT, MASLOW’S HIERARCHY OF NEEDS, FINANCIAL AND NON-FINANCIAL INCENTIVES • LEADERSHIP-CONCEPT ,STYLES-AUTHORITATIVE, DEMOCRATIC AND LAISSEZ FAIRE • COMMUNICATION-CONCEPT, ELEMENTS OF PROCESS OF COMMUNICATION, FORMAL AND INFORMAL COMMUNICATION; BARRIERS TO EFFECTIVE COMMUNICATION, HOW TO OVERCOME THE BARRIERS • CONTROLLING-CONCEPT AND IMPORTANCE • RELATIONSHIP BETWEEN PLANNING AND CONTROLLING STEPS IN PROCESS OF CONTROL	• 12

SUBJECT : PSYCHOLOGY

Reference book – Psychology Textbook for Class XII NCERT

Month	Unit / Chapter	Topics to be Covered	Practical Work
MARCH/ APRIL	UNIT I: VARIATIONS IN PSYCHOLOGICAL ATTRIBUTES	• INTRODUCTION • INDIVIDUAL DIFFERENCES IN HUMAN FUNCTIONING • ASSESSMENT OF PSYCHOLOGICAL ATTRIBUTES • INTELLIGENCE: THEORIES (PSYCHOMETRIC, INFORMATION PROCESSING, TRIARCHIC, GARDNER'S MI) • EMOTIONAL INTELLIGENCE • APTITUDE (NATURE AND MEASUREMENT) • CREATIVITY	PRACTICAL 1: ADMINISTRATION AND INTERPRETATION OF INTELLIGENCE TEST
MAY	UNIT II: SELF AND PERSONALITY (PART 1)	• INTRODUCTION • CONCEPT OF SELF • COGNITIVE AND BEHAVIOURAL ASPECTS OF SELF • CULTURE AND SELF	CONTINUE PRACTICAL 1 IF PENDING START PLANNING FOR CASE PROFILE
JULY	UNIT II (CONTD.): SELF AND PERSONALITY (PART 2) UNIT III: MEETING LIFE CHALLENGES	• CONCEPT OF PERSONALITY • APPROACHES: TYPE, TRAIT, PSYCHODYNAMIC, BEHAVIOURAL, CULTURAL, HUMANISTIC • ASSESSMENT: SELF-REPORT, PROJECTIVE, BEHAVIOURAL ANALYSIS • NATURE AND SOURCES OF STRESS • EFFECTS OF STRESS • COPING STRATEGIES • PROMOTING POSITIVE HEALTH AND WELL-BEING	PRACTICAL 2: PERSONALITY TEST PRACTICAL 3: STRESS OR ADJUSTMENT SCALE
AUGUST	UNIT IV: PSYCHOLOGICAL DISORDERS	• CONCEPTS AND CLASSIFICATION • HISTORICAL BACKGROUND • FACTORS UNDERLYING ABNORMAL BEHAVIOUR • MAJOR PSYCHOLOGICAL DISORDERS: ANXIETY, OCD, TRAUMA, SOMATIC, DISSOCIATIVE,	BEGIN CASE PROFILE WORK (INTERVIEW, OBSERVATION, PSYCHOLOGICAL TEST USE)

Month	Unit / Chapter	Topics to be Covered	Practical Work
		DEPRESSION, BIPOLAR, SCHIZOPHRENIA, NEURODEVELOPMENTAL, DISRUPTIVE, EATING, SUBSTANCE-USE DISORDERS	
SEPTEMBER	UNIT V: THERAPEUTIC APPROACHES	• NATURE AND PROCESS OF PSYCHOTHERAPY • TYPES: BEHAVIOUR, COGNITIVE, HUMANISTIC, ALTERNATIVE THERAPIES • FACTORS IN HEALING • ETHICS IN PSYCHOTHERAPY • REHABILITATION OF MENTALLY ILL	PRACTICAL 4: APTITUDE OR ATTITUDE TEST
OCTOBER	REVISION OF UNITS I–V	• MIDTERM PREPARATION • SAMPLE PAPER PRACTICE • CASE-BASED AND COMPETENCY-BASED REVISION	COMPLETE CASE PROFILE FILE REVIEW ALL 4 PRACTICALS
NOVEMBER	UNIT VI: ATTITUDE AND SOCIAL COGNITION UNIT VII: SOCIAL INFLUENCE AND GROUP PROCESSES	UNIT VI: • SOCIAL BEHAVIOUR • NATURE AND COMPONENTS OF ATTITUDES • FORMATION AND CHANGE OF ATTITUDES • PREJUDICE AND DISCRIMINATION • STRATEGIES TO HANDLE PREJUDICE UNIT VII: • NATURE AND FORMATION OF GROUPS • TYPES • INFLUENCE: SOCIAL LOAFING, GROUP POLARISATION	PRACTICAL 5: TEST ON SOCIAL INFLUENCE / GROUP BEHAVIOUR CASE PROFILE FINAL REVIEW
DECEMBER	FINAL REVISION + SAMPLE PAPERS + VIVA PRACTICE	• MOCK TEST PAPERS • FULL SYLLABUS REVISION • REMEDIAL TEACHING • PRACTICE LONG/SHORT/CASE-BASED/COMPETENCY QUESTIONS	FINAL PRACTICAL EXAM: CONDUCT 2 PSYCHOLOGICAL TESTS + VIVA + FILE AND CASE PROFILE SUBMISSION

SUBJECT: ECONOMICS

BOOKS PRESCRIBED:

1. **INTRODUCTORY MACROECONOMICS-NCERT**
2. **INDIAN ECONOMIC DEVELOPMENT- NCERT**
3. **Introductory Macroeconomics- V.K Ohri & T. R Jain**
4. **Indian Economic Development- V. K Ohri & T. R Jain**

[illegible]

		MONEY CREATION BY THE COMMERCIAL BANKING SYSTEM. CENTRAL BANK AND ITS FUNCTIONS (EXAMPLE OF THE RESERVE BANK OF INDIA): BANK OF ISSUE, GOVT. BANK, BANKER'S BANK, CONTROL OF CREDIT THROUGH BANK RATE, CRR, SLR, REPO RATE AND REVERSE REPO RATE, OPEN MARKET OPERATIONS, MARGIN REQUIREMENT.	
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JULY	3 DETERMINATION OF INCOME AND EMPLOYMENT	AGGREGATE DEMAND AND ITS COMPONENTS. PROPENSITY TO CONSUME AND PROPENSITY TO SAVE (AVERAGE AND MARGINAL). SHORT-RUN EQUILIBRIUM OUTPUT; INVESTMENT MULTIPLIER AND ITS MECHANISM. MEANING OF FULL EMPLOYMENT AND INVOLUNTARY UNEMPLOYMENT. PROBLEMS OF EXCESS DEMAND AND DEFICIENT DEMAND; MEASURES TO CORRECT THEM – CHANGES IN GOVERNMENT SPENDING, TAXES AND MONEY SUPPLY.	30
	4 GOVERNMENT BUDGET AND THE ECONOMY	GOVERNMENT BUDGET-MEANING, OBJECTIVES AND COMPONENTS. CLASSIFICATION OF RECEIPTS -REVENUE RECEIPTS AND CAPITAL RECEIPTS; CLASSIFICATION OF EXPENDITURE –REVENUE EXPENDITURE AND CAPITAL EXPENDITURE.	18
	6 DEVELOPMENT EXPERIENCE (1947-90) AND ECONOMIC REFORMS SINCE 1991:	BALANCE, SURPLUS AND DEFICIT BUDGET - MEASURES OF GOVERNMENT DEFICIT. A BRIEF INTRODUCTION OF THE STATE OF INDIAN ECONOMY ON THE EVE OF INDEPENDENCE. COMMON GOALS OF FIVE YEAR PLANS. MAIN FEATURES, PROBLEMS AND POLICIES OF AGRICULTURE (INSTITUTIONAL ASPECTS AND NEW AGRICULTURAL STRATEGY, ETC.), INDUSTRY (IPR 1956; SSI – ROLE & IMPORTANCE) AND FOREIGN TRADE. ECONOMIC REFORMS SINCE 1991: FEATURES AND APPRAISALS OF LIBERALIZATION, GLOBALIZATION AND PRIVATIZATION (LPG POLICY); CONCEPTS OF DEMONETIZATION AND GST.	28

AUG	7 CURRENT CHALLENGES FACING INDIAN ECONOMY	HUMAN CAPITAL FORMATION: HOW PEOPLE BECOME RESOURCE; ROLE OF HUMAN CAPITAL IN ECONOMIC DEVELOPMENT, GROWTH OF EDUCATION SECTOR IN INDIA. RURAL DEVELOPMENT: KEY ISSUES -CREDIT AND MARKETING -ROLE	10
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		OF COOPERATIVES; AGRICULTURAL DIVERSIFICATION; ALTERNATIVE FARMING -ORGANIC FARMING EMPLOYMENT: GROWTH AND CHANGES IN WORK FORCE PARTICIPATION RATE IN FORMAL AND INFORMAL GROWTH; PROBLEMS AND POLICIES.	
SEP	8 DEVELOPMENT EXPERIENCE OF INDIA CHINA AND PAKISTAN	A COMPARISON WITH NEIGHBOURS INDIA AND PAKISTAN INDIA AND CHINA ISSUES: ECONOMIC GROWTH, POPULATION, SECTORAL DEVELOPMENT AND OTHER HUMAN DEVELOPMENT INDICATORS.	12
OCT		PRE BOARD EXAMINATION - I	
NOV	7 SUSTAINABLE ECONOMIC DEVELOPMENT:	MEANING EFFECTS OF ECONOMIC DEVELOPMENT	10
		ON RESOURCES AND ENVIRONMENT INCLUDING GLOBAL WARMING	
	5 BALANCE OF PAYMENTS	BALANCE OF PAYMENTS ACCOUNT -MEANING AND COMPONENTS; BALANCE OF PAYMENTS – SURPLUS & DEFICIT FOREIGN EXCHANGE RATE -MEANING OF FIXED AND FLEXIBLE RATES AND MANAGED FLOATING. DETERMINATION OF EXCHANGE RATE IN A FREE MARKET, MERITS AND DEMERITS OF FLEXIBLE AND FIXED EXCHANGE RATE MANAGED FLOATING EXCHANGE RATE SYSTEM.	18

		REVISION OF SYLLABUS/ PRE- BOARD	

SUBJECT: PAINTING (049)

TEXT BOOK - FULLMARKS HISTORY OF INDIAN ART

MONTH	THEORY (ALL TOPICS)	PRACTICAL	PERIODS
APRIL	UNIT – I THE RAJASTHANI SCHOOL OF MINIATURE PAINTING : 1. ORIGIN AND DEVELOPMENT. 2. STUDY OF RAJASTHANI PAINTINGS	COMPOSITION (NATIONAL, RELIGIOUS ,CULTURAL, HISTORICAL AND SOCIAL EVENTS)	15
MAY	UNIT – I PAHARI SCHOOLS OF MINIATURE PAINTING: 1. ORIGIN AND DEVELOPMENT. 2. STUDY OF PAHARI PAINTINGS	COMPOSITION (NATIONAL, RELIGIOUS ,CULTURAL, HISTORICAL AND SOCIAL EVENTS)	15
JULY	UNIT – II THE MUGHAL SCHOOL OF MINIATURE PAINTINGS : 1. ORIGIN AND DEVELOPMENT. 2. STUDY OF MUGHAL PAINTINGS AND MAIN FEATURES	NATURE AND OBJECTS STUDY	15
AUG	UNIT -- II DECCAN SCHOOL OF MINIATURE PAINTINGS : 1. ORIGIN AND DEVELOPMENT 2. PHASES OF DECCANI ART 3. SPECIALITIES OF THE STYLE OF DECCANI ART. 4. STUDY OF DECCAN PAINTINGS AND MAIN FEATURES	NATURE STUDY (OUTDOOR)	15
SEP	UNIT – III THE BENGAL SCHOOL OF PAINTING AND THE MODERN TRENDS IN INDIAN ART: 1. INTRODUCTION TO THE BENGAL SCHOOL OF PAINTING 2. STUDY OF THE PAINTINGS OF THE BENGAL SCHOOL. 3. CONTRIBUTION OF INDIAN ARTISTS IN THE STRUGGLE FOR NATIONAL FREEDOM	COMPOSITION FANTASY , FAMILY , FRIENDS AND DAILY LIFE	15

	MOVEMENT 4. EVOLUTION OF THE INDIAN NATIONAL FLAG		
OCT-	UNIT – IV THE MODERN TRENDS IN INDIAN ART: 1. MODERN TRENDS IN INDIAN ART 2. PAINTINGS OF THE CONTEMPORARY (MODERN) INDIAN ARTISTS 3. GRAPHIC PRINTS OF THE CONTEMPORARY (MODERN) INDIAN ARTISTS	OBJECT DRAWING COMPOSITION.	A15 N C
NOV	UNIT – IV THE MODERN TRENDS IN INDIAN ART: 1. SCULPTURES OF THE CONTEMPORARY (MODERN) INDIAN ARTISTS REVISION OF ENTIRE SYLLABUS	OBJECT DRAWING COMPOSITION . PORTFOLIO SUBMISSION	A 10 N C

Subject : Physical Education

MONTH	CHAPTER	TOPICS	PERIODS	MARKS
MARCH / APRIL	UNIT1- MANAGEMENT OF SPORTING EVENTS	1.FUNCTIONS OF SPORTS EVENTS MANAGEMENT (PLANNING, ORGANISING, STAFFING, DIRECTING & CONTROLLING) 2.VARIOUS COMMITTEES & THEIR RESPONSIBILITIES (PRE; DURING & POST)BU 3.FIXTURES AND THEIR PROCEDURES – KNOCK-OUT (BYE & SEEDING) & LEAGUE (STAIRCASE, CYCLIC, TABULAR METHOD) AND COMBINATION TOURNAMENTS. 4.INTRAMURAL & EXTRAMURAL TOURNAMENTS – MEANING, OBJECTIVES & ITS SIGNIFICANCE 5. COMMUNITY SPORTS PROGRAM (SPORTS DAY, HEALTH RUN, RUN FOR FUN, RUN FOR SPECIFIC CAUSE & RUN FOR UNITY)	16	07
MAY	UNIT-2 CHILDREN & WOMEN IN SPORTS	1.EXERCISE GUIDELINES OF WHO FOR DIFFERENT AGE GROUPS. 2.COMMON POSTURAL DEFORMITIES-KNOCK KNEES, FLAT FOOT, ROUND SHOULDERS, LORDOSIS, KYPHOSIS, SCOLIOSIS, AND BOW LEGS AND THEIR RESPECTIVE CORRECTIVE MEASURES 3.WOMEN’S PARTICIPATION IN SPORTS – PHYSICAL, PSYCHOLOGICAL, AND SOCIAL BENEFITS 4.SPECIAL CONSIDERATION (MENARCHE AND MENSTRUAL DYSFUNCTION) 5.FEMALE ATHLETE TRIAD (OSTEOPOROSIS, AMENORRHEA, EATING DISORDERS).	12	07

	UNIT 3- YOGA AS PREVENTIVE MEASURE FOR LIFESTYLE DISEASE	1.OBESITY: PROCEDURE, BENEFITS & CONTRAINDICATIONS FOR TADASANA, KATICHAKRASANA, PAVANMUKTASANA, MATSAYASANA, HALASANA, PACHIMOTTANASANA, ARDHA-MATSYENDRASANA, DHANURASANA, USHTRASANA, SURYABEDHAN PRANAYAMA. 2.DIABETES: PROCEDURE, BENEFITS & CONTRAINDICATIONS FOR KATICHAKRASANA, PAVANMUKTASANA,BHUJANGASANA, SHALABHASANA, DHANURASANA, SUPTAVAJARASANA, 3.ASTHMA: PROCEDURE, BENEFITS & CONTRAINDICATIONS FOR TADASANA, URDHWAHASTOTTANSANA, UTTANMANDUKASANA, BHUJANGASANA, DHANURASANA, USHTRASANA, VAKRASANA, KAPALBHATI, GOMUKHASANA MATSYAASANA, ANULOMA- VILOMA. 4.HYPERTENSION: PROCEDURE, BENEFITS & CONTRAINDICATIONS FOR TADASANA, KATICHAKRANSAN, UTTANPADASANA, ARDHA HALASANA, SARALA MATYASANA, GOMUKHASANA, UTTANMANDUKASAN-A, VAKRASANA, BHUJANGASANA, MAKARASANA, SHAVASANA, NADISHODHANAPRANAYAM, SITLIPRANAYAM. 5.BACK PAIN AND ARTHRITIS: PROCEDURE, BENEFITS & CONTRAINDICATIONS OF TADASAN, URDHAWAHASTOOTANSANA, ARDHCHAKRASANA, USHTRASANA, VAKRASANA, SARALA MAYSYENDRSANA, BHUJANDGASANA, GOMUKHASANA, BHADRASANA, MAKARASANA, NADI-SHODHANA PRANAYAMA.	07	06
	UNIT4- PHYSICAL EDUCATION & SPORTS FOR CWSN	1.ORGANIZATIONS PROMOTING DISABILITY SPORTS (SPECIAL OLYMPICS; PARALYMPICS; DEAFLYMPICS) 2.CONCEPT OF CLASSIFICATION AND DIVISIONING IN SPORTS.	10	04

		3.CONCEPT OF INCLUSION IN SPORTS, ITS NEED, AND IMPLEMENTATION; 4.ADVANTAGES OF PHYSICAL ACTIVITIES FOR CHILDREN WITH SPECIAL NEEDS. 5.STRATEGIES TO MAKE PHYSICAL ACTIVITIES ASSESSABLE FOR CHILDREN WITH SPECIAL NEEDS.		
JULY	UNIT 5- SPORTS & NUTRITION	1.CONCEPT OF BALANCED DIET AND NUTRITION 2.MACRO AND MICRO NUTRIENTS: FOOD SOURCES & FUNCTIONS 3.NUTRITIVE & NON-NUTRITIVE COMPONENTS OF DIET 4.EATING FOR WEIGHT CONTROL – A HEALTHY WEIGHT, THE PITFALLS OF DIETING, FOOD INTOLERANCE, AND FOOD MYTHS 5. IMPORTANCE OF DIET IN SPORTS-PRE, DURING AND POST COMPETITION REQUIREMENTS.	13	07
	UNIT 6 – TEST & MEASUREMENT IN SPORTS	1.FITNESS TEST – SAI KHELO INDIA FITNESS TEST IN SCHOOL: AGE GROUP 5-8 YEARS/ CLASS 1-3: BMI, FLAMINGO BALANCE TEST, PLATE TAPPING TEST AGE GROUP 9-18YRS/ CLASS 4- 12: BMI, 50MT SPEED TEST, 600MT RUN/WALK, SIT & REACH FLEXIBILITY TEST, STRENGTH TEST (PARTIAL ABDOMINAL CURL UP, PUSHUPS FOR BOYS, MODIFIED PUSH-UPS FOR GIRLS). 2.MEASUREMENT OF CARDIO-VASCULAR FITNESS – HARVARD STEP TEST – DURATION OF THE EXERCISE IN SECONDS X100/5.5 X PULSE COUNT OF 1-1.5 MIN AFTER EXERCISE. 3.COMPUTING BASAL METABOLIC RATE (BMR) 4.RIKLI & JONES - SENIOR CITIZEN FITNESS TEST ● CHAIR STAND TEST FOR LOWER BODY STRENGTH ● ARM CURL TEST FOR UPPER BODY STRENGTH ● CHAIR SIT & REACH TEST FOR LOWER BODY FLEXIBILITY BACK SCRATCH TEST FOR UPPER BODY FLEXIBILITY ● EIGHT FOOT UP & GO TEST FOR AGILITY ● SIX-MINUTE WALK TEST FOR AEROBIC	12	08

		ENDURANCE 5. JOHNSEN – METHNEY TEST OF MOTOR EDUCABILITY (FRONT ROLL, ROLL, JUMPING HALF-TURN, JUMPING FULL TURN)		
AUGUST	UNIT 7 – PHYSIOLOGY & INJURIES IN SPORTS	1. PHYSIOLOGICAL FACTORS DETERMINING COMPONENTS OF PHYSICAL FITNESS 2. EFFECT OF EXERCISE ON THE MUSCULAR SYSTEM 3. EFFECT OF EXERCISE ON THE CARDIO-RESPIRATORY SYSTEM II 4. PHYSIOLOGICAL CHANGES DUE TO AGING 5. SPORTS INJURIES: CLASSIFICATION (SOFT TISSUE INJURIES - ABRASION, CONTUSION, LACERATION, INCISION, SPRAIN & STRAIN; BONE & JOINT INJURIES - DISLOCATION, FRACTURES - GREEN STICK, COMMINUTED, TRANSVERSE OBLIQUE & IMPACTED) 1. NEWTON'S LAW OF MOTION & ITS APPLICATION IN SPORTS 2. TYPES OF LEVERS AND THEIR APPLICATION IN SPORTS.	13	05
SEPTEMBER	UNIT 8 – BIOMECHANICS & SPORTS	3. EQUILIBRIUM – DYNAMIC & STATIC AND CENTRE OF GRAVITY AND ITS APPLICATION IN SPORTS UNIT VIII 3. EQUILIBRIUM – DYNAMIC & STATIC AND CENTRE OF GRAVITY AND ITS APPLICATION IN SPORTS 4. FRICTION & SPORTS 5. PROJECTILE IN SPORT	16	20
	UNIT 9 – PSYCHOLOGY & SPORTS	1. PERSONALITY; ITS DEFINITION & TYPES (JUNG CLASSIFICATION & BIG FIVE THEORY) 2. MOTIVATION, ITS TYPE & TECHNIQUES. 3. EXERCISE ADHERENCE: REASONS, BENEFITS & STRATEGIES FOR ENHANCING IT UNIT IX & X 4. MEANING, CONCEPT & TYPES OF AGGRESSIONS IN		10

	UNIT 10 – TRAINING IN SPORTS	SPORTS 5.PSYCHOLOGICAL ATTRIBUTES IN SPORTS – SELF-ESTEEM, MENTAL IMAGERY, SELF-TALK, GOAL SETTING 1.CONCEPT OF TALENT IDENTIFICATION AND TALENT DEVELOPMENT IN SPORTS 2.INTRODUCTION TO SPORTS TRAINING CYCLE – MICRO, MESO, MACRO CYCLE. UNIT X 3.TYPES & METHODS TO DEVELOP – STRENGTH, ENDURANCE, AND SPEED. 4.TYPES & METHODS TO DEVELOP – FLEXIBILITY AND COORDINATIVE ABILITY. 5.CIRCUIT TRAINING - INTRODUCTION & ITS IMPORTANCE	12	7
			15	09

Subject : Political Science

			PERIODS
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MONTH	CHAPTER NO: & NAME	SUBTOPICS	
MARCH/ APRIL	CHAPTER 1 – CHALLENGES IN NATION BUILDING (BOOK 1: POLITICS IN INDIA)	A) CHALLENGES FOR THE NEW NATION. THREE CHALLENGES. B) PARTITION: DISPLACEMENT AND REHABILITATION. CONSEQUENCES OF PARTITION. C) INTEGRATION OF PRINCELY STATES. THE PROBLEM GOVERNMENT’S APPROACH HYDERABAD MANIPUR D) REORGANISATION OF STATES.	16
	CHAPTER 1 -THE END OF BIPOLARITY (BOOK 2 : -CONTEMPORARY WORLD POLITICS)	A) THE SOVIET SYSTEM B) GORBACHEV AND THE DISINTEGRATION C) CAUSES AND CONSEQUENCES OF DISINTEGRATION OF SOVIET UNION D) SHOCK THERAPY AND ITS CONSEQUENCES E) NEW ENTITIES IN WORLD POLITICS RUSSIA BALKAN STATES CENTRAL ASIAN STATES F) INDIA'S RELATIONS WITH RUSSIA AND OTHER POST-COMMUNIST COUNTRIES	15
MAY	CHAPTER 2 – CONTEMPORARY CENTRES OF POWER (BOOK 2 : -CONTEMPORARY WORLD POLITICS)	A) EUROPEAN UNION B) ASSOCIATION OF SOUTHEAST ASIAN NATIONS C) RISE OF CHINA AS AN ECONOMIC POWER D) JAPAN AND SOUTH KOREA AS EMERGING POWERS)	18
	CHAPTER-2 ERA OF ONE-PARTY DOMINANCE (BOOK 1: POLITICS IN INDIA)	A) CHALLENGE OF BUILDING DEMOCRACY. B) CONGRESS DOMINANCE IN THE FIRST THREE GENERAL ELECTIONS. NATURE OF CONGRESS DOMINANCE CONGRESS AS A SOCIAL AND IDEOLOGICAL COALITION. TOLERANCE AND MANAGEMENT OF FACTIONS C) EMERGENCE OF OPPOSITION PARTIES	8
	CHAPTER 3- POLITICS OF PLANNED DEVELOPMENT	A) POLITICAL CONTESTATION. IDEAS OF DEVELOPMENT. PLANNING PLANNING COMMISSION	12

	(BOOK 1: POLITICS IN INDIA)	B) THE EARLY INITIATIVES THE FIRST FIVE YEAR PLAN. RAPID INDUSTRIALISATION	
JULY	CHAPTER 4 - INDIA'S FOREIGN POLICY (BOOK 1: POLITICS IN INDIA)	A) INTERNATIONAL CONTEXT B) THE POLICY OF NON- ALIGNMENT. NEHRU'S ROLE DISTANCE FROM TWO CAMPS. AFRO ASIAN UNITY C) PEACE AND CONFLICT WITH CHINA THE CHINESE INVASION 1962 WAR AND PEACE WITH PAKISTAN BANGLADESH WAR 1971 D) INDIA'S NUCLEAR POLICY.	20
	CHAPTER-3 CONTEMPORARY SOUTH ASIA (BOOK 2: -CONTEMPORARY WORLD POLITICS)	A) MILITARY AND DEMOCRACY IN PAKISTAN AND BANGLADESH B) MONARCHY AND DEMOCRACY IN NEPAL C) ETHNIC CONFLICT AND DEMOCRACY IN SRI LANKA D) INDIA-PAKISTAN CONFLICTS E) INDIA AND ITS NEIGHBOURS F) PEACE AND COOPERATION	18
	CHAPTER-5- CHALLENGES TO AND RESTORATION OF THE CONGRESS SYSTEM (BOOK 1: POLITICS IN INDIA)	A) CHALLENGE OF POLITICAL SUCCESSION FROM NEHRU TO SHASTRI FROM SHASTRI TO INDIRA GANDHI B) FOURTH GENERAL ELECTION 1967 CONTEXT OF THE ELECTION. NON CONGRESSISM ELECTORAL VERDICT COALITIONS DEFLECTIONS C) SPLIT IN THE CONGRESS INDIRA VS THE SYNDICATE PRESIDENTIAL ELECTION 1969 D) THE 1971 ELECTION AND RESTORATION OF CONGRESS THE OUTCOME AND AFTER RESTORATION?	12
AUGUST	CHAPTER 4- INTERNATIONAL ORGANIZATIONS	A) MEANING AND IMPORTANCE OF INTERNATIONAL ORGANISATIONS B) EVOLUTION OF THE UN C) STRUCTURE AND FUNCTION OF INTERNATIONAL ORGANISATIONS D) PRINCIPAL ORGANS OF UN	10

	(BOOK 2: -CONTEMPORARY WORLD POLITICS)	E) REFORM OF THE UN AFTER COLD WAR F) REFORM OF STRUCTURES, PROCESSES AND JURISDICTION OF THE UN G) INDIA AND THE UN REFORMS H) KEY AGENCIES: IMF, WORLD BANK, WTO, ILO, IAEA. I) NGO: AMNESTY INTERNATIONAL, HUMAN RIGHTS WATCH. J) IMPLICATIONS AND FUTURE OF INTERNATIONAL ORGANIZATIONS	
	CHAPTER 5- SECURITY IN THE CONTEMPORARY WORLD (BOOK 2: -CONTEMPORARY WORLD POLITICS)	A) MEANING AND TYPE OF SECURITY. B) TRADITIONAL CONCEPT OF SECURITY C) NON-TRADITION NOTIONS OF SECURITY. D) NEW SOURCES OF THREATS E) COOPERATIVE SECURITY F) INDIA'S SECURITY STRATEGY	10
	CHAPTER 6 - THE CRISIS OF DEMOCRATIC ORDER (BOOK 1: POLITICS IN INDIA)	A) BACKGROUND TO EMERGENCY. ECONOMIC CONTEXT. GUJARAT AND BIHAR MOVEMENTS CONFLICT WITH JUDICIARY B) DECLARATION OF EMERGENCY CRISIS AND RESPONSE CONSEQUENCES C) LESSONS OF THE EMERGENCY. D) POLITICS AFTER EMERGENCY. LOK SABHA ELECTIONS 1977 JANATA GOVERNMENT LEGACY	15
SEPTEMBER	CHAPTER-6 ENVIRONMENT AND NATURAL RESOURCES (BOOK 2: -CONTEMPORARY WORLD POLITICS)	A) ENVIRONMENTAL CONCERNS B) GLOBAL COMMONS C) COMMON BUT DIFFERENTIATED RESPONSIBILITIES D) INDIA'S STAND ON ENVIRONMENT ISSUES E) ENVIRONMENTAL MOVEMENTS F) RESOURCE GEOPOLITICS G) RIGHTS OF INDIGENOUS PEOPLES	12
	CHAPTER-7 REGIONAL ASPIRATIONS (BOOK 1: POLITICS IN INDIA)	A) REGION AND THE NATION INDIAN APPROACH AREAS OF TENSION JAMMU AND KASHMIR ROOTS OF THE PROBLEM EXTERNAL AND INTERNAL DISPUTES	15

		POLITICS SINCE 1948 INSURGENCY AND AFTER 2002 AND BEYOND B) PUNJAB POLITICAL CONTEXT CYCLE OF VIOLENCE ROAD TO PEACE C) THE NORTHEAST DEMAND FOR AUTONOMY SECESSIONIST MOVEMENTS MOVEMENTS AGAINST OUTSIDERS ASSAM AND NATIONAL INTEGRATION	
	CHAPTER-8- RECENT DEVELOPMENTS IN INDIAN POLITICS (BOOK 1: POLITICS IN INDIA)	A) CONTEXT OF 1990S B) ERA OF COALITION ALLIANCE POLITICS C) POLITICAL RISE OF THE BACKWARD CLASSES D) IMPLEMENTED POLITICAL FALLOUTS E) COMMUNALISM, SECULARISM AND DEMOCRACY. AYODHYA DISPUTE DEMOLITION AND AFTER F) EMERGENCE OF NEW CONSENSUS G) LOK SABHA ELECTIONS 2004 H) GROWING CONSENSUS	20
OCTOBER	PRE BOARD 1		
NOVEMBER	CHAPTER- 7 GLOBALIZATION (BOOK 2: -CONTEMPORARY WORLD POLITICS)	A) CONCEPT OF GLOBALISATION B) CAUSES AND CONSEQUENCES OF GLOBALISATION C) INDIA AND GLOBALISATION D) RESISTANCE TO GLOBALISATION E) INDIA AND RESISTANCE TO GLOBALISATION	12
	BOOK 1 & 2	COMPLETE SYLLABUS REVISION	
	PRE BOARD 2		

Subject: Hindustani Percussion Instruments

MONTH	CHAPTER AND	ACTIVITY	PERIODS
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	SUB-TOPIC		
APRIL	UTHAN, COMPARATIVE STUDY OF TALAS, EDVANCE KAYDA	PRACTICE ON TABLA AND PADHANT ON HAND	15
MAY	HISTORY OF TABLA, KAYDA IN RUPAK TAAL, GHARANA- DELHI BANARAS, LUCKNOW	PRACTICE ON TABLA AND PADHANT ON HAND	15
JULY	LAYKARI, BIOGRAPHY OF PT. KISHAN MAHARAJ AND RAJA CHHATRAPATI SINGH, SADHARAN AND CHAKKARDAR TUKRA IN RUPAK TAAL	PRACTICE ON TABLA AND PADHANT ON HAND	15
AUGUST	BIOGRAPHY OF ZAKIR HUSSAIN AND GURU PURUSHOTTAM DAS, FARMAISHI CHAKKARDAR, PARAN IN RUPAK TAAL OR TIVRA TAAL	PRACTICE ON TABLA AND PADHANT ON HAND	15
SEPTEMBER	GHARANA- FARRUKHABAD, PANJAB, AJARADA, RELA IN RUPAK TAAL	PRACTICE ON TABLA AND PADHANT ON HAND	15

OCTOBER	DAMDAR TIHAI AND DADRA TAAL	PRACTICE ON TABLA AND PADHANT ON HAND	15
NOVEMBER	REVISION		10

HINDI TEXT BOOKS: NCERT 1. आरोह भाग 2

2. वितान भाग 2

3. अभिव्यक्ति और माध्यम

मास	कालांश	खंड	उपखंड	अधिगम प्रतिफल
अप्रैल	22	आरोह (पद्यांश)	पाठ - आत्म-परिचय, एक गीत	विभिन्न बोलियों जैसे-ब्रज,अवधि व राजस्थानी भाषा का ज्ञान प्राप्त करना।
		आरोह (गद्यांश)	पाठ - पतंग	व्यवहारिक ज्ञान का विकास
		अभिव्यक्ति और माध्यम	पाठ - भक्ति पाठ - बाजार दर्शन	पठन कौशल का विकास
		रचनात्मक लेखन	विभिन्न माध्यमों के लिए लेखन अनुच्छेद लेखन/निबंध लेखन	जनसंचार के विभिन्न माध्यमों से अवगत करना बौद्धिक कौशल का विकास
		अपठित बोध	अपठित गद्यांश	

मई	20	आरोह (पद्यांश)	पाठ - कविता की कहानी, बात सीधी थी पर	ईश्वर स्मरण, अच्छे काम करना और उत्तम विद्या के महत्व की चर्चा करना। ऊँच-नीच, छुआछूत, अस्पृश्यता जैसी बुराइयों के बारे में बताना। लेखन कौशल का विकास
	24	आरोह (गद्यांश)	पाठ - काले मेघा पानी दे	
जुलाई		वितान	पाठ - सिल्वर वैडिंग	
		अभिव्यक्ति और माध्यम	पाठ - पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया	बचपन की स्मृति को सबसे साँझा करना। भाषाशैली का विकास करना।
		अपठित बोध	अपठित पद्यांश	लेखन कौशल का विकास
		आरोह (पद्यांश)	पाठ - कैमरे में बंद अपाहिज उषा	भाषा का ज्ञान
		आरोह (गद्यांश)	पाठ - बादल राग पाठ - पहलवान की ढोलक	
		अभिव्यक्ति और माध्यम	पाठ - विशेष लेखन-स्वरूप और प्रकार	
		अपठित बोध	अपठित पद्यांश रिपोर्ट लेखन	

अगस्त	22	आरोह (पद्यांश) आरोह (गद्यांश) वितान अभिव्यक्ति और माध्यम अपठित बोध लेखन कौशल	पाठ - कवितावली (उत्तर कांड से), लक्ष्मण-मूच्छ और राम का विलाप पाठ - शिरीष के फूल पाठ - जूझ पाठ - कैसे करे कहानी का नाट्य रूपान्तरण अपठित गद्यांश अनुच्छेद लेखन	ईश्वर स्मरण, अच्छे काम करना और उत्तम विद्या के महत्व की चर्चा करना। साहित्य, समाज और राजनीति में पुरानी और नई पीढ़ी के द्वंद्व को उजागर करना । नाट्य प्रतिभा का विकास हुआ । कहानी लेखन का विकास हुआ । लेखन कौशल का विकास हुआ ।
सितंबर	10	आरोह (पद्यांश) आरोह (गद्यांश) वितान	पाठ - छोटा मेरा खेत, बगुलों के पंख पाठ - श्रम-विभाजन और जाति-प्रथा, मेरी कल्पना का आदर्श समाज पाठ - अतीत में दबे पाँव	काव्य लेखन की क्षमता का विकास करना। धार्मिक सौहार्द की भावना का विकास करना। प्रेम, सद्भाव, विश्वास और भाईचारे के विषय में चर्चा करना। लेखन व पठन कौशल का विकास।

		अभिव्यक्ति और माध्यम अपठित बोध लेखन कौशल	पाठ - कैसे बनता है रेडियो नाटक पाठ - नए और अप्रत्याशित विषयों पर लेखन अपठित गद्यांश आलेख लेखन फीचर लेखन	शब्द कौशल का विकास करना।
अक्टूबर	18	पुनरावृत्ति	पुनरावृत्ति	छात्र पहले सिखाई गई अवधारणाओं को संशोधित करते हैं।
नवंबर	22	पुनरावृत्ति	पुनरावृत्ति	छात्र पहले सिखाई गई अवधारणाओं को संशोधित करते हैं।
दिसंबर	24	पुनरावृत्ति	पुनरावृत्ति	छात्र पहले सिखाई गई अवधारणाओं को संशोधित करते हैं।
जनवरी		पुनरावृत्ति	पुनरावृत्ति	छात्र पहले सिखाई गई अवधारणाओं को संशोधित करते हैं।

SUBJECT : ARTIFICIAL INTELLIGENCE

TEXT BOOK PRESCRIBED: NCERT

MONTH	TOPIC	UNIT/SUBUNITS
APRIL	UNIT 3: STORY-TELLING THROUGH DATA	● THE NEED FOR STORYTELLING ○ INFORMATION PROCESSING AND RECALLING STORIES ○ WHY IS STORYTELLING IMPORTANT? ○ STRUCTURE THAT STORY! ● HOW TO CREATE STORIES?

	(CRITICAL AND CREATIVE THINKING SKILLS)	○ BEGIN WITH A PEN-PAPER APPROACH ○ DIG DEEPER TO IDENTIFY THE SOLE PURPOSE OF YOUR STORY ○ USE POWERFUL HEADINGS ○ DESIGN A ROAD-MAP ○ CONCLUDE WITH BREVITY ● ETHICS OF STORYTELLING ● TYPES OF DATA AND SUITABLE CHARTS ○ TEXT [WORDCLOUDS] ○ MIXED [FACET GRIDS] ○ NUMERIC [LINE CHARTS/ BAR CHARTS] ○ STOCKS [CANDLESTICK CHARTS] ○ GEOGRAPHIC [MAPS]
MAY	UNIT 3: STORY-TELLING THROUGHDATA (CRITICAL AND CREATIVE THINKING SKILLS) PART A COMMUNICATION SKILLS –IV	● STORIES DURING THE STEPS OF PREDICTIVE MODELING ○ DATA EXPLORATION ○ FEATURE VISUALIZING ○ MODEL CREATION ○ MODEL COMPARISONS ● BEST PRACTICES OF STORYTELLING ● REFERENCE MATERIAL /ONLINE RESOURCES: ○ ANALYTICS VIDHYA (HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2020/05/ART-STORYTELLING-ANALYTICS-DATA-SCIENCE/) ○ UDEMY: (HTTPS://WWW.UDEMY.COM/COURSE/TELL-A-STORY-WITH-DATA/) ○ COURSERA: (HTTPS://WWW.COURSERA.ORG/LEARN/INTRO-BUSINESS-ANALYTICS) ○ COURSERA: (HTTPS://WWW.COURSERA.ORG/LEARN/COMMUNICATE-WITH-IMPACT)
JULY	UNIT 2: MODEL LIFECYCLE (KNOWLEDGE)	● DIFFERENT ASPECTS OF MODEL □ TRAIN, TEST, VALIDATE, □ WHAT ARE HYPER PARAMETERS □ COMMONLY USED PLATFORMS TO BUILD AND RUN MODELS (INTRODUCTION)

		□ RECOMMENDED TOOLS □ LINKS TO DIFFERENT PLATFORMS ON WATSON ● LIFECYCLE OF AN AI MODEL □ BUILD □ DEPLOY □ RETRAIN
AUGUST	UNIT 1: CAPSTONE PROJECT PART A UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS-IV & UNIT -2, SELF-MANAGEMENT IV	● UNDERSTANDING THE PROBLEM ● DECOMPOSING THE PROBLEM THROUGH DT FRAMEWORK ● ANALYTIC APPROACH ● DATA REQUIREMENTS ● DATA COLLECTION ● MODELLING APPROACH
SEP	UNIT 1: CAPSTONE PROJECT	● HOW TO VALIDATE MODEL QUALITY □ BY TEST-TRAIN SPLIT □ INTRODUCE CONCEPT OF CROSS VALIDATION ● METRICS OF MODEL QUALITY BY SIMPLE MATHS AND EXAMPLES FROM SMALL DATASETS – SCALED UP TO CAPSTONE PROJECT (APPLY) □ RMSE- ROOT MEAN SQUARED ERROR □ MSE – MEAN SQUARED ERROR □ MAPE – MEAN ABSOLUTE PERCENT ERROR

		INTRODUCTION TO COMMONLY USED ALGORITHMS AND THE SCIENCE BEHIND THEM SHOWCASE THROUGH A COMPELLING STORY
OCT		PRE BOARD EXAMINATION - I
NOV	REVISION	REVISION
	PRE BOARD EXAM – I EXAM	

SUBJECT-SYLLABUS YOGA

MONTH	CHAPTER /BOOK /MAIN SKILL & UNIT/TOPICS	UNIT/TOPIC
APRIL	SUBJECT SPECIFIC SKILLS YOGA	UNIT 1 – INTRODUCTION TO YOGA AND YOGIC PRACTICES – II
MAY	EMPLOYABILITY SKILLS EMPLOYABILITY SKILLS	UNIT 1 : COMMUNICATION SKILLS-IV UNIT 2 : SELF-MANAGEMENT SKILLS- IV
JULY	SUBJECT SPECIFIC SKILLS	UNIT 2 – INTRODUCTION TO YOGA TEXTS - II

AUGUST	EMPLOYABILITY SKILLS	UNIT 3 : ICT SKILLS- IV
	EMPLOYABILITY SKILLS	UNIT 4 : ENTREPRENEURIAL SKILLS- IV
SEPTEMBER	1ST TERM EXAMINATION	
OCTOBER	EMPLOYABILITY SKILLS	UNIT 5 : GREEN SKILLS- IV
NOVEMBER	SUBJECT SPECIFIC SKILLS	UNIT 3 – YOGA FOR HEALTH PROMOTION - II
DECEMBER	PRACTICAL FILE / REVISION	
JANUARY	REVISION	

SUBJECT-SYLLABUS BUSINESS ADMINISTRATION

MONTH	CHAPTER /BOOK /MAIN SKILL & UNIT/TOPICS	UNIT/TOPIC
APRIL	SUBJECT SPECIFIC SKILLS	UNIT 1 : INTRODUCTION TO MANAGEMENT
	EMPLOYABILITY SKILLS	UNIT 1 : COMMUNICATION SKILLS-IV
MAY	SUBJECT SPECIFIC SKILLS	UNIT 2 :CONCEPT OF MANAGEMENT
	EMPLOYABILITY SKILLS	UNIT 2 : SELF-MANAGEMENT SKILLS- IV

JULY	SUBJECT SPECIFIC SKILLS EMPLOYABILITY SKILLS	UNIT 3 : FUNCTIONS OF MANAGEMENT UNIT 3 : ICT SKILLS- IV
AUGUST	SUBJECT SPECIFIC SKILLS EMPLOYABILITY SKILLS	UNIT 4 : COMMUNICATION UNIT 4 : ENTREPRENEURIAL SKILLS- IV
SEPTEMBER	1ST TERM EXAMINATION	
OCTOBER	SUBJECT SPECIFIC SKILLS EMPLOYABILITY SKILLS	UNIT 5 : MOTIVATION UNIT 5 : GREEN SKILLS- IV
NOVEMBER	SUBJECT SPECIFIC SKILLS	UNIT 6 : LEADERSHIP UNIT 7 : SOCIAL RESPONSIBILITY OF BUSINESS
DECEMBER	SUBJECT SPECIFIC SKILLS	UNIT 8 : INFORMATION TECHNOLOGY AND BUSINESS
JANUARY	REVISION	

SUBJECT- MASS MEDIA STUDIES-

MONTH	CHAPTER /BOOK /MAIN SKILL & UNIT/TOPICS	UNIT/TOPIC
APRIL	UNIT-1UNIT-I: SELLING/MARKETING/EXHIBITING A PRODUCT THROUGH ADVERTISING	CHAPTER 1: ADVERTISING CONCEPT & PROCESS CHAPTER 2: FUNCTIONS OF ADVERTISING CHAPTER 2: FUNCTIONS OF ADVERTISING CHAPTER 4: FORMS OF ADVERTISING
MAY	UNIT II: INTRODUCTION TO THE PRODUCTION PROCESS	CHAPTER 1: FILM 1. PRE- SHOOTING STAGE. 2. SHOOTING STAGE. 3. POST-SHOOTING STAGE. CHAPTER 2: TV 1. PRE- SHOOTING STAGE. 2. SHOOTING STAGE. 3. POST-SHOOTING STAGE.
JULY	UNIT II: INTRODUCTION TO THE PRODUCTION PROCESS	CHAPTER 3: PRINT 1. PLANNING, WRITING, EDITING, DESIGNING. CHAPTER 4. RADIO 1. PLANNING, RECORDING, EDITING, TRANSMISSION. CHAPTER 5. INTERNET 1. PLANNING, CREATING AND DELIVERING.
AUGUST	UNIT III: NEW MEDIA	CHAPTER-1: CONVERGENCE AND THE NEW POSSIBILITIES OF COMMUNICATION EARLIER MODELS OF COMMUNICATION 1. INTERNET AS THE MEETING POINT OF ALL THE MASS MEDIA. 2. BROADCASTING 3. MASS COMMUNICATION MODEL OF A FEW TRANSMITTING TO A VAST NUMBER OF RECEIVERS. 4. GIGANTIC ORGANIZATION. 5. HUGE TECHNICAL INFRA-STRUCTURE 6. LARGE SCALE REVENUE. 7. THE CHANGED PARADIGM DUE TO THE INTERNET. 8. EMPOWERING AN INDIVIDUAL TO POST DATA ON THE INTERNET.
SEPTEMBER	UNIT III: NEW MEDIA	9. INFORMATION, MESSAGE IN ONE MEDIUM TRIGGERING OFF ACTIVITY IN THE OTHERS. 10. MANY SOURCES OF THE SAME INFORMATION. 11. DISTRIBUTION OF THE INFORMATION BETWEEN INDIVIDUALS ON AN UNPRECEDENTED GLOBAL SCALE. 12. RAPIDITY OF OPINION GENERATION ON A LOCAL, NATIONAL AND GLOBAL SCALE. 13. THE SOCIO-POLITICAL IMPLICATIONS OF THE NEW INFORMATION ORDER. 14. THE STRENGTHENING OF DEMOCRACY. 15. EMERGING TRENDS IN MASS COMMUNICATION
OCTOBER	UNIT IV: CREATIVE CONTRIBUTIONS OF THE KEY PEOPLE	PRE BOARD 1

NOVEMBER	UNIT IV: CREATIVE CONTRIBUTIONS OF THE KEY PEOPLE	CHAPTER 1: FILM: 1. CONTRIBUTIONS MADE BY WRITER, DIRECTOR, PRODUCER, ACTOR, CINEMATOGRAPHER, AUDIOGRAPHER, EDITOR, ART DIRECTOR, MUSIC COMPOSER. CHAPTER 2: TV: 1. CONTRIBUTIONS MADE BY WRITER, DIRECTOR, PRODUCER, ACTOR, CINEMATOGRAPHER, AUDIOGRAPHER, EDITOR, ART DIRECTOR, MUSIC COMPOSER. CHAPTER 3: PRINT: 1. CONTRIBUTIONS MADE BY REPORTER, SUB-EDITOR, EDITOR CHAPTER 4: RADIO: 1. CONTRIBUTIONS MADE BY ARTIST, SPEAKER, INTERVIEWER, RECORDIST, PROGRAMME PRODUCER, STATION DIRECTOR. CHAPTER 5: INTERNET: 1. CONTRIBUTIONS MADE BY WRITER, CONCEPTUALIZER, EDITOR, DESIGNER.
DECEMBER	TEACHING ACTIVITIES/REVISION	PRE BOARD II
JANUARY	REVISION	PRACTICAL

SUBJECT: MATHS**TEXT BOOK PRESCRIBED: NCERT MATHS, EXEMPLAR PROBLEMS IN MATHS**

MONTH	CHAPTER	SUB TOPIC
APRIL	Chapter- 3 Matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).
	Chapter- 4 Determinant	Determinant of a square matrix (up to 3×3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.
	Chapter - 1 Relations and Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.
MAY	Chapter -2 Inverse Trigonometric functions	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.
	Chapter- 5 Continuity and Differentiability	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, <i>like</i> $\sin^{-1}x$, $\cos^{-1}x$ and $\tan^{-1}x$, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.
JULY	Chapter – 6 Applications of Derivatives	Applications of derivatives: rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations)

JULY	Chapter-7 Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.
AUG	Chapter- 8 Applications of Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only).
	Chapter- 9 Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation.
	Chapter -10 Vectors	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.
SEP	Chapter- 11 3-D Geometry	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines.
	Chapter- 12 Linear –Programming	Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).
	Chapter- 13 Probability	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.
OCT	PRE – BOARD 1	

NOV

PRE – BOARD 2

