



Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE
(Monthly Plan - August 2020)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH		LIT : A THING OF BEAUTY ARTICLE WRITING	A THING OF BEAUTY cntd NOTICE WRITING ASL PRACTICE	LIT :SHOULD WIZARD HIT MOMMY COMPREHENSION ASL PRACTICE	LIT :SHOULD WIZARD HIT MOMMY - CNTD	<p>*Able to analyse the poem, identify the literary devices used and answer local and global questions.</p> <p>*Create awareness or appreciation for content, language, style and tone of the poem.</p> <p>*Able to write different types of notices to convey information.</p> <p>*Able to differentiate between adult perceptions and that of children.</p> <p>*Able to develop effective speaking and listening skills.</p> <p>*Write articles on important social issues .</p>

<p>MATHEMATICS</p>	<p>EID HOLIDAYS</p>	<p>Integrals</p> <p>*Basic properties of definite integrals and evaluation of definite integrals</p>	<p>Definite integrals and Misc Ex,</p> <p>Matrices:</p> <p>*Types of matrices, zero and identity matrix, transpose of a matrix,</p>	<p>Matrices:</p> <p>symmetric and skew symmetric matrices. Operation on matrices</p> <p>Determinants:</p> <p>Definition, properties, minors, cofactors</p>	<p>Determinants contd.</p> <p>*Adjoint of a matrix, solving equations using matrices.</p>	<p>* Understands formulae and properties of definite integrals.</p> <p>* Understands the meaning of definite integral of a function</p> <p>* Compares and identifies the properties</p> <p>* Selects appropriate methods and properties</p> <p>* Apply formulae to evaluate the definite integrals</p> <p>* Apply properties of definite integrals</p> <p>* Develops interest to learn more about integration and its applications.</p>
<p>PHYSICS</p>	<p>EID HOLIDAYS</p>	<p><u>OPTICS</u></p> <p>Refraction</p>	<p>optical fibres, refraction at spherical surfaces, lenses,</p>	<p>Magnification, power of a lens,</p>	<p>combination of thin lenses in contact</p>	<p>Students will be able to to understand</p> <ol style="list-style-type: none"> 1. The laws of reflection and refraction are true for all surfaces and pairs of media at

		<p>light, total internal reflection and its applications,</p>	<p>thin lens formula, maker's formula..</p>			<p>the point of the incidence.</p> <p>2. The real image of an object placed between f and $2f$ from a convex lens can be seen on a screen placed at the image location.</p> <p>To apply</p> <p>. 3. Image formation needs regular reflection/refraction. In principle, all rays from a given point should reach the same image point. This is why you do not see your image by an irregular reflecting object, say the page of a book.</p> <p>4. Thick lenses give coloured images due to dispersion. The variety in colour of objects we see around us is due to the constituent colours of the light incident on them. A monochromatic light may produce an entirely different perception about the colours on an object as seen in white light.</p> <p>5. For a simple microscope, the angular size of the object equals the angular</p>
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						size of the image. Yet it offers magnification because we can keep the small object much closer to the eye than 25 cm and hence have it subtend a large angle. The image is at 25 cm which we can see. Without the microscope, you would need to keep the small object at 25 cm which would subtend a very small angle.
CHEMISTRY	EID HOLIDAYS	<p><u>Solid State</u></p> <p>Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea). Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing</p>	<p><u>Solutions</u></p> <p>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,</p>	osmotic pressure, determination of molecular masses using colligative properties.	<p><u>Electrochemistr</u></p> <p>Y</p> <p>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 electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration,</p>	Students will be able to describe general characteristics of solid state; • distinguish between amorphous and crystalline solids; • classify crystalline solids on the basis of the nature of binding forces; • define crystal lattice and unit cell; • explain close packing of particles; • describe different types of voids and close packed structures; • calculate the packing efficiency of different types of cubic unit cells; • correlate the density of a substance with its unit cell properties; • describe the

		<p>efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects.</p>	<p>depression of freezing point,</p>	<p>Kohlrausch's Law, electrolysis.</p>	<p>imperfections in solids and their effect on properties;</p> <ul style="list-style-type: none"> • <p>describe the formation of different types of solutions;</p> <ul style="list-style-type: none"> • express concentration of solution in different units; • state and explain Henry's law and Raoult's law; • distinguish between ideal and non-ideal solutions; • explain deviations of real solutions from Raoult's law; • describe colligative properties of solutions and correlate these with molar masses of the solutes; • <p>able to</p> <ul style="list-style-type: none"> • describe an electrochemical cell and differentiate between galvanic and electrolytic cells; • apply Nernst equation for calculating the emf of galvanic cell and define standard potential of the cell; • derive relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant; • define resistivity (ρ),
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						<p>conductivity (κ) and molar conductivity ($\mathcal{O}m$) of ionic solutions; • differentiate between ionic (electrolytic) and electronic conductivity; • describe the method for measurement of conductivity of electrolytic solutions and calculation of their molar conductivity; • justify the variation of conductivity and molar conductivity of solutions with change in their concentration and define $\Lambda^\circ m$ (molar conductivity at zero concentration or infinite dilution); • enunciate Kohlrausch law and learn its applications;</p>
BIOLOGY	EID HOLIDAYS	<p>Molecular basis of inheritance - Translation</p>	<p>Molecular basis of inheritance - Regulation, HGP</p>	<p>Sexual reproduction in flowering plants</p>	<p>-Pre-fertilisation - structure and events</p>	<p>Students will be able to understand and apply</p> <p>The DNA The Search for Genetic Material RNA World Replication Transcription Genetic Code Translation Regulation of Gene Expression</p>

						Human Genome Project DNA Fingerprinting
INFORMATICS PRACTICES		Introduction – matplotlib, Installing matplotlib. Types of visualization- Basic visualization rules, basic nomenclature of a plot.	Types of visualization- Basic visualization rules, basic nomenclature of a plot. Line plot,.	Scatter charts, bar-plot charts, frequency polygon, Box plot	Scatter charts, bar-plot charts, frequency polygon, Box plot	<ul style="list-style-type: none"> • Students will be able to create various charts using real time data with different methods. • Students will be able to understand data analysis using data visualization techniques. • It helps in finding out the difficulties and solutions in business in terms of better results.
COMPUTER SCIENCE	Summer Break	Functions: scope, parameter passing, mutable/immutable properties of data objects, passing strings, lists, tuples, dictionaries to functions, default parameters, positional parameters, return values. Functions using libraries:	Creating Database connectivity Applications - Performing Insert, Update, Delete queries - Display data using fetchone(), fetchall(), rowcount().	Python Project using MySQL connectivity. Revision of the basics of Python covered in Class XI – String and Lists.	Revision of the basics of Python covered in Class XI - Tuples and Dictionary.	<ul style="list-style-type: none"> • Students will be able to understand the concept of User-defined functions. • They also know about types of arguments / parameters and how to invoke the function. • They will be able to connect Front End (Python) and Back

		Mathematical and string functions.				<p>End (MySQL) by doing a project.</p> <ul style="list-style-type: none"> • They will be able to distinguish and use effectively Python sequences like Strings, Lists, Tuples and Dictionaries.
ACCOUNTANCY	Eid Holidays	<p>Comprehensive sums in NPO</p> <p><u>Fundamentals of Partnership</u></p> <p>Partnership: features, partnership deed</p> <p>Fixed v/s fluctuating capital account,</p> <p>Interest on Capital,</p>	<p>Preparation of profit and loss appropriation account</p> <p>Past adjustments and guarantee of profits</p> <p>Goodwill: nature, factors affecting goodwill, methods of valuation-average profit.</p>	<p>Goodwill valuation: Super profit and capitalization method</p> <p><u>Change in PSR</u></p> <p>Cal. Of NR, SR, GR</p> <p>Treatment of Reserves & Goodwill.</p>	<p>Preparation of revaluation account and balance sheet.</p> <p>Comprehensive sums relating to change in PSR</p>	<ul style="list-style-type: none"> • Students will be able to solve comprehensive sums in NPO • Students will be able to gain theoretical knowledge in partnership • Will be able to understand the concepts in calculation of interest on loan, capital, drawings and commission • Will be able to prepare profit and loss appropriation account, past adjustments and understand the concept of minimum

		Drawings, Commission				<p>guarantee of profits</p> <ul style="list-style-type: none"> ● Will be able to solve comprehensive sums of the chapter ● Students will be able to gain theoretical knowledge in change in psr chapter and prepare revaluation account, partners capital account and balance sheet ● Students will be able to solve comprehensive sums in Change in PSR chapter
BUSINESS STUDIES	Eid Holidays	<p>Selection- process</p> <p>Training and development – concept and importance, methods of training on the hob vestibule training,</p>	<p><u>Directing:</u></p> <p>Concept and importance</p> <p>Elements of directing</p>	<p>Leadership concept – style, authoritative, democratic and laissez faire.</p> <p>Communication – concept, formal and</p>	<p><u>Controlling</u></p> <p>Controlling – concept and importance</p>	<p>Understand the meaning of selection.</p> <p>Describe the steps involved in the process of selection</p> <p>Discuss the meaning of induction training, vestibule training, apprenticeship training and internship training.</p>

		<p>apprenticeship training and internship training.</p>	<p>Motivation - concept, Maslow's hierarchy of needs, financial and non – financial incentives</p>	<p>informal communication.</p>	<p>Steps in process of controlling.</p>	<p>Differentiate between training and development.</p> <p>Discuss on the job and off the job methods of training.</p> <p>Describe the concept of directing.</p> <p>Discuss the importance of directing.</p> <p>Describe the various elements of directing.</p> <p>Understand the concept of motivation.</p> <p>Develop an understanding of Maslow's Hierarchy of needs.</p> <p>Discuss the various financial and non – financial incentives</p> <p>Understand the concept of leadership</p> <p>Understand the various styles of leadership.</p> <p>Understand the various concept of communication.</p>
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						<p>Understand the elements of communication process.</p> <p>Discuss the concept of formal and informal communication.</p>
ECONOMICS	Eid Holidays	Macro Economics: Keynesian Multiplier	Excess Demand and Deficient Demand	Indian Economic Development: Poverty	Indian Economic Development: Rural Development	<p>Understands what is investment multiplier and the mechanism through which it works.</p> <p>Can solve numerical problems on multiplier and can relate to MPC, MPS.</p> <p>Understands the meaning of full employment and involuntary employment</p> <p>Can explain the problems of excess demand and deficient demand.</p> <p>Knows the measures to correct excess demand and deficient demand by adopting various fiscal policies (change in Govt spending) and monetary policies (Changes in availability of credit)</p>

						<p>Can understand various attributes of poverty, comprehend its various dimensions, critically appreciate the way poverty is estimated, knows about poverty alleviation programmes.</p> <p>Understands how critical rural development is. Knows about the importance of credit and marketing systems.</p> <p>Appreciates the importance of diversification of production activities</p>
ENTREPRENEURSHIP	Eid Holidays	<p>Sales strategy and promotional strategy</p> <p>Promotion mix</p> <p>Advertising objectives , rules</p> <p>Developing effective advertising, commonly used media for advertising,</p> <p>Personal selling, sales promotion.</p>	<p>Personal selling, sales promotion.</p> <p>Explain the meaning of public relation.</p> <p><u>UNIT-4:</u></p> <p><u>ENTERPRISE GROWTH STRATEGIES</u></p> <p>internal expansion and external expansion</p>	<p>Explain in detail about franchising ingredients of franchising agreement.</p>	<p>Understand the types of franchising advantages and disadvantages of franchising.</p>	<p>Understand various promotional strategy like above the line,below the line etc..and sales strategy. Understand the various promotional tools and the mix of those tools to promote the product.</p> <p>Explaining the objective, rules, and understanding of developing effective advertising.</p>

						<p>Explaining the meaning of personal selling and the role of a sales person.</p> <p>Describe what is sales promotion and major sales promotional activity undertaken by organisations as part of trade promotion, business promotion and consumer promotion.</p> <p>Discuss the meaning of public relation. Explain in detail about franchising,</p> <p>Understand the types of franchising ,advantages and disadvantages of franchising.</p>
ENGINEERING GRAPHICS	EID HOLIDAYS	<p>Submission and checking of holiday assignments.</p> <p>Unit 4: Rod Joints Introduction: Assembling of Sleeve and cotter Joint.</p>	Disassembling of Sleeve and Cotter joint.	Gib and Cotter joint assembling	Gib and cotter joint disassembling.	

PSYCHOLOGY	Eid holidays	Unit 1: Variations in Psychological Attributes Culture and Intelligence Emotional Intelligence Special Abilities: Aptitude: Nature and Measurement Creativity	Unit 6: Attitude and Social Cognition 1. Introduction 2. Explaining Social Behaviour 3. Nature and Components of Attitudes	Unit 6: Attitude and Social Cognition Attitude Formation Attitude Change Attitude-Behaviour Relationship	Unit 6: Attitude and Social Cognition Prejudice and Discrimination Strategies for Handling Prejudice	Students will be able to: <ul style="list-style-type: none"> ● understand what are attitudes, ● how they are formed and changed, ● analyse how people interpret and explain the behaviour of others, ● comprehend how the presence of others influences our behaviour, ● explain why people help or do not help others in distress
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