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|  |                         |   | <p>formation in lenses using ray diagrams, Sign convention for spherical lenses, Lens formula and magnification, Power of a lens.</p> <p><b><u>2. LIFE PROCESSES- CONTD</u></b><br/> "Living being". Basic concepts of Transportation and excretion in plants and animals.</p>   |  |
|  | MAY<br>Working Days -15 | <p><b><u>1. ELECTRICITY</u></b><br/> Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of Electric current and its applications in daily life. Electric Power, Inter relation between P, V, I and R.</p> <p><b><u>2. HUMAN EYE AND COLOURFUL WORLD</u></b><br/> Refraction of light through a prism, Dispersion of white light by a glass prism, Atmospheric refraction<br/> Scattering of light.<br/> Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses.<br/> Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.</p> <p>(excluding colour of the sun at sunrise and sunset)</p> | <p>To determine the focal length of:<br/> i) Concave mirror ii) Convex lens by obtaining the image of a distant object.<br/> To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence.<br/> Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result<br/> To find the image distance for varying object distances in case of a convex lens and draw corresponding ray diagrams to show the nature of image formed.</p> <p>To trace the path of the rays of light through a glass prism</p> |  |

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| 2. | <p><b>Periodic Assessment 2</b><br/>50% of the total syllabus<br/>(Period- 6 July to 10 August 2026)</p> <p><b>Mid Term</b><br/>80% of the Syllabus<br/>(Period- 7 Sep to 22 September 2026)</p> | <p>JULY<br/>Working Days -22</p>   | <p><b><u>1. CONTROL AND CO-ORDINATION</u></b></p> <p>Animals and plants: Tropic movements in plants; Introduction of plant hormones; Control and co-ordination in animals: Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones</p> <p><b><u>2. ACIDS, BASES AND SALTS</u></b></p> <p>Their definitions in terms of furnishing of H<sup>+</sup> and OH<sup>-</sup> ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of sodium hydroxide, Bleaching powder, Baking soda, washing soda and Plaster of Paris.</p> <p><b><u>3. METALS AND NON-METALS:</u></b><br/>Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention</p> | <p>To find the pH of the following samples by using pH paper/universal indicator:</p> <ol style="list-style-type: none"> <li>Dilute Hydrochloric Acid</li> <li>Dilute NaOH solution</li> <li>Dilute Ethanoic Acid solution</li> <li>Lemon juice</li> <li>Water</li> <li>Dilute Sodium Bicarbonate solution</li> </ol> <p>To study the properties of acids and bases (HCl &amp; NaOH) by their reaction with:</p> <ol style="list-style-type: none"> <li>Litmus solution (Blue/Red)</li> <li>Zinc metal</li> <li>Solid sodium carbonate</li> </ol> <p>To observe the action of Zn, Fe, Cu and Al metals on the following salt solutions:</p> <ol style="list-style-type: none"> <li>ZnSO<sub>4</sub> (aq)</li> <li>FeSO<sub>4</sub> (aq)</li> <li>CuSO<sub>4</sub> (aq)</li> <li>Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> (aq)</li> </ol> <p>ii) Arrange Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.</p> |
|    |  | <p>AUGUST<br/>Working Days -19</p> | <p><b><u>1. CARBON AND ITS COMPOUNDS:</u></b> Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds</p>  | <p>Study of the following properties of acetic acid (ethanoic acid):</p> <ol style="list-style-type: none"> <li>Odour</li> <li>solubility in water</li> <li>effect on litmus</li> </ol>   |

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|  |  |                                       | <p>containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.</p> <p><b><u>2. HOW DO ORGANISMS REPRODUCE?</u></b><br/> Reproduction in animal and plants (asexual and sexual) reproductive health-need for and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.</p> | <p>iv) reaction with Sodium Hydrogen Carbonate</p> <p>Study of the comparative cleaning capacity of a sample of soap in soft and hard water.</p> <p>To study (a) binary fission in Amoeba, and (b) budding in yeast with the help of prepared slides.</p> <p>Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean)</p> |
|  |  | <p>SEPTEMBER<br/>Working Days- 21</p> | <p><b>Mid Term</b></p> <p><b><u>1. OUR ENVIRONMENT</u></b><br/> Eco-system, Environmental problems, Ozone depletion, waste production and their solutions.</p>  |  |
|  |  | <p>OCTOBER<br/>Working Days- 18</p>   | <p><b><u>1. HEREDITY:</u></b><br/> Mendel's contribution- Laws for inheritance of traits: Sex determination: brief introduction</p> <p>(topics excluded - evolution; evolution and classification and evolution should not be equated with progress)</p> <p><b><u>2. MAGNETIC EFFECTS OF ELECTRIC</u></b></p>   |  |

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|   |  |                                      | <p><b><u>CURRENT:</u></b></p> <p>Magnetic effects of current: Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits.</p> |   |
| 3 | <p><b>Pre Board 1</b><br/>100% Syllabus<br/>(Period- 5 Nov to 25 Nov 2026)</p>       | <p>NOVEMBER<br/>Working Days- 16</p> | <p><b>Preboard 1</b><br/><b>Revision</b></p>  |   |
| 4 | <p><b>Pre Board 2</b><br/>100% Syllabus<br/>(Period- 4 Dec to 16 December 2026 )</p> | <p>December<br/>Working Days- 20</p> | <p><b><u>Preboard 2</u></b></p>   | - |
|   |  | <p>JANUARY<br/>Working Days -18</p>  | -   |   |
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