**INDIAN SCHOOL ALW ADI AL KABIR**

**DEPARTMENT OF SCIENCE 2017 -18**

**POST MID TERM / AT II / PRELIM I - EXAMINATION – SCIENCE , FRENCH , ENGG. GRAPHICS**

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| **Post Mid Term Examination** | | |
| **CLASS 6-THEORY** | | **CLASS 6-PRACTICAL THEORY** |
| 1. MOVEMENTS IN BODY 2. ADAPTATIONS IN LIVING ORGANISMS MEASUREMENT AND MOTION 3. LIGHT SHADOWS AND REFLECTIONS | | 1. TO MEASURE THE LENGTH OF CURVED LINE WITH DIVIDER 2. WORKING OF PINHOLE CAMERA |
| **CLASS 7-THEORY** | **CLASS 7 –PRACTICAL THEORY** | |
| 1. RESPIRATION IN ORGANISMS 2. TRANSPORTATION AND EXCRETION 3. PHYSICAL AND CHEMICAL CHANGES 4. TIME AND MOTION | 1. To observe a chemical change by burning of magnesium ribbon 2. To observe a displacement reaction between iron and copper sulphate | |
| **CLASS 8-THEORY** | | **CLASS 8-PRACTICAL THEORY** | |
| 1. COAL AND PETROLEUM 2. SOUND 3. CROP PRODUCTION AND MANAGEMENT 4. NATURAL PHENOMENA | | 1. TO DEMONSTRATE CHANGE OF PITCH ( JAL THARANG) (LAB ACTIVITY) 2. TO SEPARATE HEALTHY SEEDS FROM UNHEALTHY ONES. (LAB ACTIVITY) | |

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| **Post Mid Term Examination** | |
| **CLASS 9 THEORY** | **CLASS 9 – PRACTICAL THEORY** |
| **Physics**  Chapter 8 – Motion  Chapter 9 – Force and laws of motion  Chapter 10 – Gravitation  Chapter 11 – Work and Energy till potential energy (including page 153) | **Physics – PRACTICAL THEORY**  i. Density of solid block.  ii. Archimedes’ principle. |
| **Chemistry**  Chapter 1 - Matter in our surroundings  Chapter 2 - Is matter around us pure  Chapter 3 – Atoms and Molecules | **Chemistry – PRACTICAL THEORY**  1. Determination of the melting point of ice and the boiling point of water.  2.Preparation of: a true solution, a suspension, a colloidal solution on the basis of Transparency, Filtration criterion, Stability  3. Preparation of a) a mixture, b) a compound Using iron filings and Sulphur powder…….  4. Separation of the components of a mixture of sand, common salt and ammonium chloride (or camphor).  5. Verification of the law of conservation of mass in a chemical reaction. |
| **Biology**  Chapter 5 - The fundamental unit of life  Chapter 6 – Tissues  Chapter 13 - Why do we fall ill?  Chapter 14 – Diversity of Living Organisms  Chapter 15 – Improvement in food resources till Crop production management article - 15.1.2 (i) NUTRIENT MANAGEMENT till (including fertilser) | **Biology- PRACTICAL THEORY**  1. . Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.  2. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides. Drawing of their labeled diagrams.  3. Study of the characteristics of Spirogyra / Agaricus, Moss / Fern, Pinus (either with male or female cone) and an Angiospermic plant. Drawing and providing two identifying features of the groups they belong to.  4. Observing the given pictures / charts / models of earthworm, cockroach, bony fish and bird. For each organism, drawing of their picture and recording: a) one specific feature of its phylum. b) One adaptive feature with reference to its habitat. |

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| **Post Mid Term Examination** | |
| **CLASS 10 THEORY** | **CLASS 10 – PRACTICAL THEORY** |
| **PHYSICS – THEORY**  1) LIGHT ( FULL CHAPTER)  2) HUMAN EYE AND COLOURFUL WORLD ( FULL CHAPTER)  3) ELECTRICITY (FULL CHAPTER)  4) MAGNETIC EFFECTS OF ELECTRIC CURRENT( from pg no. 223 to 225. 13.2- Magnetic field due to a current carrying conductor **NOT INCLUDED.**  **CHEMISTRY- THEORY**   1. CHEMICAL REACTIONS AND EQUATIONS ( FULL CHAPTER) 2. ACIDS BASES AND SALTS (FULL CHAPTER) 3. METALS AND NON METALS- (FULL CHAPTER) 4. CARBON AND ITS COMPOUNDS.   (pages 58-74). In page 74 soaps and detergents **NOT INCLUDED.**  **BIOLOGY- THEORY**  1) LIFE PROCESSES  2) CONTROL&COORDINATION  3) HOW DO ORGANISMS REPRODUCE | **PHYSICS – PRACTICAL THEORY**  1) FOCAL LENGTH OF CONCAVE MIRROR  2) FOCAL LENGTH OF CONVEX LENS  3) PRACT- TO FIND THE IMAGE DISTANCE FOR VARYING OBJECT DISTANCES IN CASE OF CONVEX LENS AND DRAW THE CORRESPONDING RAY DIAGRAMS.  4) REFRACTION THROUGH GLASS SLAB  5) REFRACTION THROUGH GLASS PRISM  6) Studying the dependence of potential difference (V) across a resistor on the  current (I) passing through it and determine its resistance. Also plotting a graph between V and I  7) Determination of the equivalent resistance of two resistors when connected in series and parallel.  **CHEMISTRY – PRACTICAL THEORY**  1) TYPES OF REACTIONS  2) PROPERTIES OF ACIDS AND BASES  3)REACTIVITY OF METALS  4) pH  5) PROPERTIES OF ETHANOIC ACID  **BIOLOGY – PRACTICAL THEORY**  1) CO2 IS GIVEN OUT DURING RESPIRATION  2) LEAF PEEL PREPARATION  3) ASEXUAL REPRODUCTION  4) STRUCTURE OF DICOT SEED |

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| **PHYSICS** | |
| **CLASS 11 - THEORY**  **ASSESSMENT II** | **CLASS 12 –THEORY**  **REHEARSAL I** |
| 1. Chapter 2-Units and Measurements 2. Chapter 3-Motion in a straight line 3. Chapter 4-Motion in a Plane 4. Chapter 5- Laws of Motion 5. Chapter 6- Work, Energy and Power 6. Chapter 7\_ System of Particles 7. Chapter 8-Gravitation 8. Chapter 9-Properties of solids 9. Chapter 10-Properties of fluids   **ASSESSMENT II – Practical**  Cycle 1 and Cycle 2 | **Electrostatics**  Chapter-1: Electric Charges and Fields  Chapter-2: Electrostatic Potential and Capacitance  **Current Electricity**  Chapter-3: Current Electricity  **Magnetic Effect of Current & Magnetism**  Chapter-4: Moving Charges and Magnetism  Chapter-5: Magnetism and Matter  **Electromagnetic Induction & Alternating Current**  Chapter-6: Electromagnetic Induction  Chapter-7: Alternating Current  **Electromagnetic Waves**  Chapter-8: Electromagnetic Waves  **Optics**  Chapter-9: Ray Optics and Optical Instruments  Chapter-10: Wave Optics  **Dual Nature of Matter**  Chapter-11: Dual Nature of Radiation and Matter  **Atoms & Nuclei**  Chapter-12: Atoms  Chapter-13: Nuclei  **Electronic Devices**  Chapter-14:  Semiconductor  Electronics  **Communication Systems**  Chapter-15: Communication Systems |

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| **CHEMISTRY** | |
| **CLASS 11 - THEORY**  **ASSESSMENT II** | **CLASS 12 –THEORY**  **REHEARSAL I** |
| 1. Some basic concepts of Chemistry 2. Structure of atom 3. Classification of elements and periodicity in properties 4. Chemical bonding and Molecular structure 5. Hydrogen 6. Organic Chemistry Some basic Principles and Techniques 7. Hydrocarbons 8. Environmental Chemistry 9. States of Matter 10. Thermodynamics   **ASSESSMENT II – Practical**  **Salt Analysis** | 1. Solid State 2. Solutions 3. Electrochemistry 4. Chemical Kinetics 5. Surface Chemistry 6. General Principles and Processes of Isolation of Elements 7. p - Block Elements 8. d and f Block Elements 9. Coordination Compounds 10. Haloalkanes and Haloarenes 11. Alcohols, Phenols and Ethers 12. Aldehydes, Ketones and Carboxylic Acids 13. Organic compounds containing Nitrogen 14. Biomolecules 15. Polymers 16. Chemistry in Everyday life |

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| **BIOLOGY** | |
| **CLASS 11 - THEORY**  **ASSESSMENT II** | **CLASS 12 –THEORY**  **REHEARSAL I** |
| 1. HUMAN PHYSIOLOGY 2. PLANT PHYSIOLOGY 3. CELL-STRUCTURE AND FUNCTION   **ASSESSMENT II – Practical**   1. Human skeleton – bones , joints 2. Stomata – onion peel 3. Spotters – plant specimen / animal specimen 4. Modifications – roots, stem and leaves. | **Unit VI. Reproduction**  Chapter-1: Reproduction in Organisms Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction Chapter-4: Reproductive Health **Unit VII. Genetics and Evolution**  Chapter-5: Principles of Inheritance and Variation.  Chapter-6: Molecular Basis of Inheritance Chapter-7: Evolution  **Unit VIII. Biology and Human Welfare**  Chapter-8: Human Health and Diseases  Chapter-9: Strategies for Enhancement in Food Production  **Unit IX. Biotechnology and Its Applications**  Chapter-11: Biotechnology - Principles and Processes Chapter-12: Biotechnology and its Application **Unit X. Ecology and Environment**  Chapter-13: Organisms and Populations Chapter-14: Ecosystem Chapter-15: Biodiversity and its Conservation Chapter-16: Environmental Issues |

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| **POST MID TERM EXAMINATION – FRENCH**     |  |  |  |  | | --- | --- | --- | --- | | s.no. | CLASS | Textbook and Workbook Volume No | Lessons | | 1 | 6 | Apprenons  le français 2 | 0 – 2 | | 2 | 7 | Apprenons  le français 3 | 0 – 2 | | 3 | 8 | Apprenons  le français 4 | 0 – 2 | | 4 | 9 | Entre Jeunes IX | 7 – 9 | |

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| **ENGG. GRAPHICS – ASSESSMENT II** | |
| **THEORY** | **PRACTICAL** |
| **Unit I:Plane Geometry**  Chapter 1: Rectilinear figures  Chapter 2:Circles and Tangents  Chapter 3:Conic Sections  **Unit II:Solid Geometry**  Chapter 1 :Orthographic Projections of Regular Solids  Chapter 2 :Sectional Projections of Solids  **Unit III: Machine Drawing**  Chapter 1:Orthographic Projections of Simple Machine Block | **Development of Pyramids**  i)Triangular Pyramid  ii)Pentagonal Pyramid  iii)Square Pyramid  iv)Hexagonal Pyramid  v)Development of Cone  vi)Development of Cylinder |

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ACADEMIC SUPERVISOR - Science

20.11.17 / MONDAY

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