


DEWAN BADRINATH VIDYA MANDIR AMARVILLA
SESSION (2023-24)
CLASS XII (SCIENCE)

SUBJECT	
ENGLISH	<p>TASK1: You have read the story – the last lesson which touches upon the effects of war. We are witnessing something similar in today’s time as well. Talk to your grandparents or elderly neighbours , asking them about their experiences related to war. Write an article in 200 words (in your English notebook) highlighting your findings and personal opinions on the topic. Give a suitable title to it as well.</p> <p>TASK 2: Write the following in your English note book</p> <ul style="list-style-type: none"> • Invitation (formal/Informal) -2 • Replies-2 • Notice writing-2 • Letter to editor -2 <p>TASK3: Project Based on the theme of chapter -LOST SPRING , interview 5-6 underprivileged children asking them about their dreams and kinds of problems they are facing . Prepare a proper questionnaire(including personal details like name, age gender, education and current profession) and fill it based on their responses. Click pictures while conducting the survey and write about them. (Pages 10 A4 size)</p>
PHYSICS	<p>TASK1: Magnetism (Write the topics which are linked with electrostatics)</p> <p>TASK 2: 30 MCQs each from -Electric charges and field & Electric potential and capacitance</p> <p>TASK 3: Project work</p> <p>Project 1 (Roll no. 1 to 4) To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.</p> <p>Project 2 (Roll no 5 to 8) To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.</p> <p>Project 3 (Roll no 9 to 12) To estimate the charge induced on each one of the two identical styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.</p> <p style="text-align: center;">OR</p> <p>To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.</p>

CHEMISTRY	<p>TASK 1: Write Ques/ans and MCQs (15 from each unit)of the following units.Also write the exercises given in the textbook .</p> <p>Unit: Solutions Unit: Electrochemistry Unit: Chemical Kinetics Unit: Coordination</p> <p>TASK 2: Project Report: Prepare hand written project report on the following topics(10-12 pages) Roll no. 1-4</p> <ol style="list-style-type: none"> 1. Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc. <p>Roll no. 5-8</p> <ol style="list-style-type: none"> 2. Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper. <p>Roll no. 9-12</p> <ol style="list-style-type: none"> 3. Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.) <p>TASK 3: Practical: Write the below given practical in your practical notebook.</p> <ol style="list-style-type: none"> 1. Preparation of one lyophilic and one lyophobic sol. Lyophilic sol – starch. Lyophobic sol – aluminium hydroxide. 2. Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid. 3. Study of reaction rates of any one of the following: Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentrations of Iodide ions. 4. Preparation of Inorganic Compounds Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum.
MATH	<p>TASK 1: Solve at least 30 questions consisting of MCQ's , short answers , assertion reason , long answers , case study from each chapter that we had done in class.</p> <p>TASK 2: Solve chapter : Do linear programming in your notebook as this is considered to be your assignment.</p> <p>TASK 3: Write three discussed practicals in your Math Practical book</p> <p>TASK 4: Revise all the 3 chapters done in the class.</p>
BIOLOGY	<p>TASK 1: Write and learn the key concepts of following topics in you Biology notebook:</p> <p>Sexual reproduction in flowering plants</p> <ul style="list-style-type: none"> • Megasporogenesis and Microsporogenesis. • Structure of megasporangium and female gametophyte.. • Dicot and monocot embryo..

	<ul style="list-style-type: none"> • Pollination and its types. • Double fertilization <p>Human reproduction</p> <ul style="list-style-type: none"> • Anatomy of human testes. • Structure of human sperm . • Gametogenesis (Spermatogenesis and Oogenesis) • Menstrual cycle and its hormonal control . • Fertilization and its significance.. <p>Reproductive health</p> <ul style="list-style-type: none"> • MTP and STDs • Amniocentesis. • Assisted reproductive technologies (art) <p>Genetics</p> <ul style="list-style-type: none"> • One gene inheritance (Monohybrid cross) • Two gene inheritance (Dihybrid cross) • Deviations to mendalism. <p>TASK 2: Project Make a project on Cancer. (types of cancer, difference between the two types, diagnosis and treatment methods (on A4 size sheet)</p>
IP	<p>TASK1: Create line chart, Bar chart by Matplotlib using suitable examples in Python and make hardcopy of the same in a file.</p> <p>TASK 2: Project Design a Dice roll simulator in Python and forward it to anjanamanhas4@gmail.com.</p> <p>TASK 3. Read Chapter Networking and make a set of questions answers in your notebook.</p>
PHE	<p>TASK 1: Write the following questions in your notebook</p> <ol style="list-style-type: none"> 1. Functions of Sports management (Planning , organizing, directing, controlling & Staffing) 2. What is seeding ? Draw a Knock out fixture for 21 teams. 3. Explain any three Postural Deformities. 4. Explain the following :- (a) Eating Disorder. (b) Osteoporosis. (c) Amenorrhea. 5. Importance of Yoga in our day to day life. 6. Yoga as preventive measure for Life style Disease (a) Back pain and Arthritis. (b) Asthma. (c) Obesity. 7. Need & Importance of introducing Adaptive Physical Education in Curriculum. 8. Strategies to make Physical Activities assessable for children with special needs. <p>TASK 2: Make a Project on Sai Khelo India Test on A4 size sheets(10-15 Pages)</p>

