



PRAYAAG INTERNATIONAL SCHOOL, PANIPAT
SESSION: 2022-2023
GRADE: XII (SCIENCE)
HOLIDAY HOMEWORK

ENGLISH

Prepare and submit the project work report in a scrap book as per the following parameters:

- Cover Page: School Name, Title statement, Name of the student and year/ session
- Index (List of contents)
- Acknowledgement and Preface
- Certificate
- Introduction Statement (The purpose of the project)
- Detailed Project
- Learning Outcomes/ experience

1. A grateful heart is a magnet for miracles and when you start counting your blessings the whole life turns around. Write a Letter to God thanking him for all your blessings that he has bestowed upon you. (in the scrap book)

2. Make a video of 3 to 4 minutes in your own voice explaining the moral and the lesson you learn from any one of the chapters **LOST SPRING/ DEEP WATER**. Also make a project report for the same lesson.

3. **Explore And Choose** plan A or plan B career option

- Field of Interest
 - a) Academic b) Talent
- Dream University
 - 1) A 2) B 3) C
- Criteria
 - a) Entrance Test B) Scholarship
- Practicality
 - a) Distance b) Fee Structure
 - 1) academic 2) Hostel/ PG /food (boarding and lodging)
- Job Profile
 - a) Opportunities b) Salary Package

4. Parents invest the lot of time and all their hard-earned money to bring up their children. Write an article in 200 to 250 words on **THE ROLE OF GROWN UP CHILDREN TOWARDS THEIR AGED PARENTS** in reference to **My mother at Sixty-Six**. Conclude the write up with a catchy quote or a heartfelt message / self-composed poem on your parents. (in the scrap book)

5. Design the front page of a newspaper addressing the following burning issues:

- Covid
- Effects of war (Russia / Ukraine)
- Effects on of war on the economy of other countries
- Power crisis in the country

<p><u>PHYSICS</u></p>	<ol style="list-style-type: none"> 1. Revise Chapter -1 Electric Charges and Field Chapter -2 Electric Potential and Capacitance Chapter -3 Current Electricity 2. Complete Lab Manual <ul style="list-style-type: none"> Exp- To determine resistivity of two wires by plotting a graph for potential difference versus current. Exp- To find resistance of a given wire using meter bridge. Exp- To verify the laws of combination (series) of resistances using meter bridge. Exp – To determine resistance of a galvanometer by half deflection and to find its figure of merit. Act- To assemble the components of a given electric circuit. Act- To assemble a household circuit comprising three bulbs, three on/off switches, a fuse and a power source. Act- To draw the diagram of a given open circuit comprising at least a battery, rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order . 3. Solve given assignments of Ch -1,2,3 in fair notebook. 4. Make investigatory project on the given topic. 5. Solve Ncert Exemplar Problems of Ch-1,2,3 in fair notebook.
<p><u>CHEMISTRY</u></p>	<ol style="list-style-type: none"> 1-Write lab manual experiments- <ol style="list-style-type: none"> a-Write the preparation of one lyophilic solution starch and lyophobic solution Aluminum Hydroxide b-Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of R_f values c-Preparation of double salt of ferrous sulphate d- Characteristics tests of carbohydrates, fats, and proteins in pure samples and their detection in given foodstuffs 2-Do the given assignments of Ch- 2,4 and 10 in fair notebook 3-Do the project work 4-Revise chapter- 2,4 and 10
<p><u>BIOLOGY</u></p>	<ol style="list-style-type: none"> 1-Prepare an investigatory project as per the following parameters: <ul style="list-style-type: none"> • Cover Page: School Name, Title statement, Name of the student and year/ session • Index (List of contents) • Acknowledgement and Preface

	<ul style="list-style-type: none"> • Introduction of the given topic • Content of the topic • Paste the pictures related to the topic <p>2- Write lab manual experiments-</p> <ul style="list-style-type: none"> a- Prepare a temporary mount to observe pollen germination b- Study the plant population density by quadrat method c- Study the plant population frequency by quadrat method d- Prepare a temporary mount of onion root tip to study mitosis e- Isolate DNA from available plant material such as spinach, green pea seeds, papaya etc f- SPOTTING - *Flowers adapted to pollination by different agencies (wind, insects, birds) <p>*Identification of stages of gamete development i.e. T.S. of testies and T.S. ovary through permanent slides (from grasshopper/mice)</p> <p>3-Revise Chapter -2 and 3</p> <p>4- Solve the assignments of chapter – 2 and 3</p>
<u>MATHS</u>	<p>1- Prepare 20 questions of chapter 1,2,3, and 4. Solve them</p> <p>2- 2- Questions must be from outside the NCERT book</p> <p>3- Make the graphs of trigonometric and inverse trigonometric functions</p> <p>4- Do all the work in fair notebook.</p>
<u>PHYSICAL EDUCATION</u>	<p>PART A) Do following Units in your notebook.</p> <p>Unit 1. MANAGEMENT OF SPORTING EVENTS.</p> <p>1.1 Functions of Sports events Management (Planning, Organising, Staffing, Directing and Controlling)</p> <p>1.2 Tournament – knockout, league or round robin and combination</p> <p>1.3 Procedure to draw fixture – knockout (bye and seeding) and league (staircase and cyclic)</p> <p>Unit 2. CHILDREN AND WOMEN IN SPORTS</p> <p>2.1 Common Postural Deformities – knock-knee; Bow legs; Flat Foot; Round Shoulders; Lordosis; kyphosis, and Scoliosis and their corrective measures</p> <p>2.2 Special Consideration (Menarche and Menstrual Dysfunction)</p> <p>2.3 Female Athletes Traid (Osteoprosis, Amenorrhea and Eating Disorder)</p> <p>Unit 3. YOGA AS A PREVENTIVE MEASURE FOR LIFESTYLE DISEASE</p> <p>3.1 Obesity: Procedure, Benefits & Contradictions for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Paschimotasana, Ardha-Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan Pranyama.</p> <p>3.2 Diabetes: Procedure, Benefits & Contradictions for Katichakrasana, Pavanmuktasana, Bhujanasana, Shalbhasna, Ushtrasana, Ardha-Matsyendrasana, Paschimotasana, Dhanurasana, Gomukhasana, Yogmudra, SuptaVajrasana, Mandukasana, Kapalbhathi.</p> <p>(PART B) PRACTICAL WORK.</p> <ul style="list-style-type: none"> • Do Anyone One IOA recognized Sports/Game of choice. Labelled diagram of Field and Equipment. Also mention its rules, Terminologies & skills in your

	Lab manual.
<u>FINE ARTS</u>	<p>1-Still life- Students need to prepare 3 still life Size- A2 Medium pencil on paper Nature study – Students need to prepare 3 birds paintings. Size A2 Medium -pencil, Pencil colours</p>
<u>INFORMATION PRACTICES</u>	<ul style="list-style-type: none"> • Do assignment of Unit-1 given in the class in your IP notebook • Practical file- Complete practicals conducted in computer lab. Follow the guidelines and format discussed in the class • Project File- Choose a topic for project and prepare project synopsis accordingly. • INSTRUCTION FOR PROJECT SYNOPSIS: <ul style="list-style-type: none"> - It should be computerized - Files must contain pictures and other creative tools for beautiful presentation - Cover page of file must contain School logo at the centre and at the top, name of the topic should be clearly mentioned. <p>Revise for PT-1 Syllabus</p>
<u>MUSICS</u>	<p>Brief study of the following</p> <p>Alankar, Varna, Kan, Meend, Khatka, Murki, Gamak</p> <p>Unit 1.2 Brief study of the following</p> <p>Sadra, Dadra, Gram, Murchhana, Alap, Tana.</p> <p>Unit 2.1 Study of the following</p> <p>Classification of Ragas- Ancient, Medieval and Modern</p> <p>Unit 2.2 Historical development of time theory of Ragas music</p>

Note:

- The project will be assessed from the Board point of view.
- Do the in depth study of the syllabus covered.
- Revise syllabus of PT1.

"Remember time once lost can never be regained"

Keep practicing, keep learning

HAPPY HOLIDAYS

