

HANSRAJ MODEL SCHOOL

Senior Secondary Department

Class XII (2024-25)

Holidays Homework

S.NO.	SUBJECT	Holidays Homework
1	ACCOUNTANCY	<p>1. Make a video presentation on ROLE PLAYING relating to provisions in the absence of partnership deed. Instructions for ROLE PLAYING Form a group of minimum 5 students. Video should be of atleast 3 minutes. Presentation should be based on a case study in which partners claim some appropriation ,which are absent in partnership deed. Upload the video on Google and share the link with your subject teacher.</p> <p>2. Make a concept map showing Various methods of calculating goodwill.</p> <p>3 MENTAL-O-ACCOUNTING Make a cross word puzzle on the terms used in the chapter of partnership(atleast 12 terms including 2 on mental health)</p>
2	BIOLOGY	<p>1. Choose a topic from the last unit Ecology of your class XII syllabus. Collect relevant information about any one of the three chapters. You can use newspapers, articles and magazines. Present your Work in the form of PPT which should be strictly related to the chapter chosen. It should explain minutest details of the topic. Main stress should be on our own role, how we can help to maintain and sustain the ecosystem.</p> <p>2. Select any one topic of your choice from the syllabus to prepare your project file. Your project should very clearly explain the topic and your research on the topic. It should not be copying the information from net or books. Really show application of your knowledge and use your skill to</p>

		<p>solve the problem and area you have selected. It can be handwritten or typed.</p> <p>3. Till now we have completed unit of reproduction, Principles of inheritance and you people will work on the unit of ecology. Try to frame HOTS and competency based questions (with graphs, paragraph or table or data) that involves application of knowledge.</p> <p>4. Skill based-practice all the diagrams of unit reproduction. Draw neat and well labelled diagrams in your class work copy date wise. Diagrams should be properly drawn with sharp pencil.</p> <p>5. Knowledge and understanding-complete all the assignment shared in your class work copy. Complete all the notes of the chapters.</p> <p>6. Prepare a video to explain sexual reproduction in flowering plants. OR Explain various contraceptives and methods available.</p> <p>7. Carry out a research on two types of genetic disorders-chromosomal and Mendelian. Select any two diseases of each category and explain them properly with cause and symptoms.</p> <p>8. Prepare a mind map of the chapter Human Reproduction on A4 sheet.</p>
3	BUSINESS STUDIES	<p style="text-align: center;">. HOLIDAY HOMEWORK BUSINESS STUDIES XII</p> <p>1. Select any one unit out of three units to make a project.</p> <p>a) Principles of management b) Stock Exchange c) Marketing management</p>

		<p>Points to be covered while making project file</p> <ul style="list-style-type: none"> • length of the project 35 - 40 pages - handwritten - presented in a neat folder - expressive,creative and relevant content. - Supported by pictures and photographs of the visited organization chosen. - Proper title * Other Details of the project can be referred from cbse website. <p>2. Prepare a crossword puzzle on Principles of management.</p> <p>Or</p> <p>Prepare a Mindmap on the Business Environment.</p>
4	CHEMISTRY	<p>Mental health includes our emotional, psychological and social well being .It affects how we think ,feel and act .It also helps determine how we handle stress,relate to others and make healthy choices.Mental health is impoatant at every stage of life.</p> <p>Carry out research work on chemicals called 'Happy hormones' that play a very important role in boosting mental health and well being. Present your research work in the form of any one of the following :</p> <p>a) A power point presentation with at least 10 slides to explain their importance for Mental health and well being.</p> <p>b) A poster based on exercises that help to boost mental and emotional well being</p> <p>c) An e book(containing 10 pages)on hacking happy hormones for boosting mental health .</p>

		<p>d) infographics to show role of these chemicals for mental health and well being as well as activities to boost production of these chemicals in body</p> <p>2. Use the given hyperdoc https://docs.google.com/document/d/1AhkkfcZi7Dlj7oFBDm8I3FurBpYB3TIGenxJzHz1p9A/edit) to write experiments in the same order in chemistry file and frame 5 Viva questions -answers based on each experiment.</p> <p>3. Choose an investigatory project topic for chemistry as per CBSE guidelines (check CBSE website for details) and keep a write up ready to carry out the project related experiments in chemistry lab after summer vacations.</p>
5	COMPUTER SCIENCE	<p>Aim : To create a framework for a useful project on Health & Well being and perform analysis using SQL- Python data connectivity</p> <p>Task I: Research and collect data on any real world event related to Health and Well being that can be automated.</p> <ul style="list-style-type: none"> · Example: Let's consider a hypothetical marathon event, "Spring City Marathon 2024," which includes data on participants' health and well-being. The database schema will include tables for participants, events, health data, Results etc. <p>Task II: Design Back End: Map the data into a SQL database with appropriate tables, fields and constraints.</p> <p>Sample Tables:</p> <ul style="list-style-type: none"> · Participants (participant_id , pname, date_of_birth , gender ,contact_info , registration_date) · Events(event_id , event_name , event_date ,

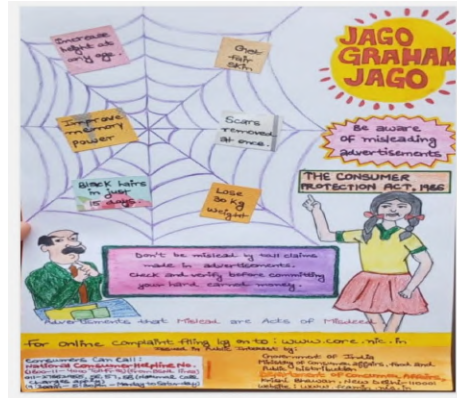
		<p>location_id , distance_km)</p> <ul style="list-style-type: none"> · HealthData (health_data_id , participant_id , event_id, pre_race_heart_rate , post_race_heart_rate , pre_race_blood_pressure , post_race_blood_pressure, timestamp) · Results(result_id, participant_id, event_id , finish_time, position) <p>Task III: Front End: Write a program using SQL Python connectivity for creating a user interface and performing following operations :</p> <ol style="list-style-type: none"> a. User authentication b. Insertion of data in the table(s) c. Update/ modify existing data d. Delete a particular record e. Generate at least four reports using SQL SELECT query on the collected data <p>Sample Reports :</p> <ul style="list-style-type: none"> · Display the number of participants for a particular event · Display the participant details along with the finish time for a particular event. · Display the pre and post heart rate and blood pressure of participants of a particular event. • Display the participants in order of their age for a particular event.
6	ECONOMICS	<ol style="list-style-type: none"> 1.Choose a topic related to Indian Economy preferably from the list suggested in CBSE Curriculum for the project work and collect relevant information about it . Following the guidelines given in CBSE curriculum, do the research work like finding articles from newspapers,magazines etc. .Write the collected information and prepare a project file. 2. Present the following topic using Art

		<p>Integration activity a) Padlet. b) Prepare for Group Discussion also relating to the topic given below. The topic has to be presented with special emphasis on the mental health of the people especially post 2020 with a drop down in employment opportunities, fall in income, seeping in of anxiety and fear due to instabilities all around the world.</p> <p>TOPIC- *Development experience of the Indian economy (1947-90) and Economic reforms since 1991 .*</p> <p>NO. OF PARTICIPANTS- MAXIMUM OF 10 STUDENTS Group of maximum 10 students of your section only for padlet. The content of the topic will also be prepared for group discussion which will take place after summer vacations. Groups can be formed according to your own choice and convenience. Language- English.</p> <p>Submit the documentation of the source code and output in a Word file</p>
7	ENGINEERING GRAPHICS	<p>For the holistic development of the concepts</p> <p style="text-align: center;">ACTIVITY 1</p> <p>Virtual tour to any one industry of your choice</p> <p>Industrial Visits (one) to any industry/ manufacturing plant to acquaint the students with the present - day methods & technology for better conceptual understanding can be done by virtual tour of the factory/plant The following links are given</p> <p>Bolt Making Machine Manufacturer</p>

		<p>https://.youtube.com/watch?v=ARS87trb4u4www</p> <p>Machine Tools Manufacturing Process -2</p> <p>https://www.youtube.com/watch?v=vIzjTEkGbN8</p> <p>Prepare a brief report of your visit using art integration on Microsoft word.</p> <p style="text-align: center;">ACTIVITY 2</p> <p style="text-align: center;">Collabcad Project</p> <p>Explore different types of prisms and pyramids and draw their Isometric view, front view, top view and side views using software.</p> <p style="text-align: center;">General instructions</p> <p>1.Download the Collabcad software from website www.collabcad.gov.in (C.B.S.E. version)</p> <p>2.Draw different views of the solids using the software.</p> <p>2.Submit printouts of 15 solids (prism, pyramid, frustum)in a file cover .</p> <p>Note : Date of submission 11.7.24</p>
8	ENGLISH	<p>Based on (SDGs) sustainable development goals to transform our world—Prepare a project to be submitted for your Annual Internal Assessment.</p> <p>Goal 3 – Good Health and Well being</p> <p>Goal 5- Gender Equality</p> <p>Goal 11 – Sustainable Cities and communities</p> <p>Goal 12 – Responsible consumption and production</p> <p>* Pick any one Goal for your project.</p>

		<p>*Refer to the chapters- Indigo/Lost Spring / Aunt Jennifer's Tigers from your textbook or any other chapter</p> <p>*Project to be prepared as a group work in a team of 4/5 students</p> <p>*Conduct surveys and interviews</p> <p>*Click pictures of your team working together</p> <p>*Follow the instructions given in the PPT shared with you for ALS Project.</p> <p>*Prepare all the pages as per instructions.</p> <p>*Use coloured A4 sheets</p> <p>*The project shall be spiral binded after showing it to your respective teacher</p>												
9	GEOGRAPHY	<ol style="list-style-type: none"> 1. Prepare maps of world and India as per topics given in the map list of CBSE Curriculum 2024-25 2. Write about importance and types of data in the practical file. 3. List the reasons for water pollution, air pollution and land degradation prevalent in India, impacting holistic health of the people. 												
10	HOME SCIENCE	<p>1. Develop a leaflet/pamphlet for Consumer Education and Protection on any one of the following-</p> <table border="1" style="margin-left: 20px;"> <tr> <td>1</td> <td>Consumer Protection Act (CPA)</td> </tr> <tr> <td>2</td> <td>Consumer responsibilities</td> </tr> <tr> <td>3</td> <td>Consumer organization</td> </tr> <tr> <td>4</td> <td>Consumer Problems</td> </tr> <tr> <td>5</td> <td>Consumer Rights</td> </tr> <tr> <td>6</td> <td>Standardization Marks</td> </tr> </table> <p>(Use a sheet of A-4 size and make the leaflet in 2/3 fold. Remember to make it more</p>	1	Consumer Protection Act (CPA)	2	Consumer responsibilities	3	Consumer organization	4	Consumer Problems	5	Consumer Rights	6	Standardization Marks
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symbolic,colorful,and with a short and crisp message.)




2. Study of an integrated community based ,nutrition/health programme being implemented in own area with reference to-

- A. Programme objectives
- B. Focal group/Beneficiaries (group covered)
- C. Modalities of implementation

- I. Stakeholders (org/persons)involved /responsible for planning and implementation.
- II. Source of funds
- III. Media used
- IV. Methods of communication
- V. Duration of campaign
- VI. Comment on relevance of the project (advantages) responses to the campaign
- VII. Actual coverage of focal groups /regards to numbers/age groups
- VIII. Suggestions

*Project has to be done on A-4 coloured sheets and on the topic allotted.Select any one from the following

- 1. ICDS

		<p>2. MIDDAY MEAL</p> <p>3. PULSE POLIO</p> <p>4. REPRODUCTIVE AND CHILD HEALTH (POSHAN ABHIYAAN)</p> <p>5. SAFE CLEAN WATER AND SANITATION</p> <p>6. ANAEMIA UKT BHARAT</p> <p>7. BETI BACHAO BETI PADHAO</p> <p>8. SWACHH BHARAT</p> <p>9. MGNREGA- WAGE EMPLOYMENT</p> <p>10. SELF EMPLOYMENT SCHEME</p> <p>11. ONE NATION ONE RATION CARD SCHEME / PDS</p> <p>* Present the information in illustration based.</p> <p>3. Preparation of any one toy for children (age appropriate) using locally available and indigenous material to be used as educational aid.</p> 
11	INFORMATICS PRACTICES	<p>Task I: From the internet, download a dataset - comma separated values (.CSV) file on any area of Mental Health and Well being. The dataset should be chosen keeping in mind the data has at</p>

		<p>least 2 numeric fields and can be visualized by plotting Line chart, Bar chart and Histogram. Following data sources may be referred for selecting a dataset:</p> <ol style="list-style-type: none"> 1. https://www.kaggle.com/datasets/ 2. https://data.gov.in/ 3. https://data.world/health/ <p>Task II : Import the relevant data for analysis in the data frame. You can create more than one data frame for different analysis.</p> <p>Task III : Using Data Visualization Tool (Python Matplotlib) , Plot at least one Bar Chart, Line Chart and Histogram on the above data frame(s).</p> <p>Submit the documentation of the source code and plots in a Word file.</p>
12	Mathematics	<ol style="list-style-type: none"> 1.Using any waste material make a three dimensional wall art showcasing Mathematical reflections and design. 2. MATHOMAZE: Mazes are the perfect tool for helping students learn how to break down a problem into smaller pieces and then find a solution.Create a colourful maze game (use of software is allowed) on the Topic Matrices and Determinants. Submit the printout of the same in the folder. An example maze is given:

5. Create a design on an ivory sheet using lines and curves using threads and pins in A4 size.

6. Solve the following Case Based questions :

Q1: A school wants to award its students for the values of honesty, regularity and hard work with a total cash award of ₹ 6000. Three times the award money for hard work added to that given for honesty amounts to ₹ 11000. The award money given for honesty and hard work together is double the one given for regularity. Based on the above information, answer the following questions:

(i) If x is awarded to honesty, ₹ y to regularity and ₹ z awarded to hard work, then write down the matrix equation representing the given situation.

(ii) If A is the coefficient matrix, then find the value of $|\text{adj } A|$.

(iii) If A is the coefficient matrix, then find the value of determinant of inverse of A .

(iv) Find the values of x, y and z .

Q2: Rajat decides to buy a few essential commodities such as masks (say x), hand sanitizers (say y) and disposable gloves (say z) to be distributed among the poor people living in slum clusters in order to prevent them from Corona-virus.

		<p>He decided to purchase a total of 600 such commodities. The sum of 3 times the number of masks, 2 times the number of sanitizers and the number of gloves is 1000, and the sum of 4 times the number of masks, all the sanitizers and 3 times the number of gloves is 1500.</p> <p>From the above given information, answer the following:</p> <p>(i) Represent the above conditions as a system of equations.</p> <p>(ii) If A is the matrix of coefficients, find adj A.</p> <p>(iii) Find the values of x,y and z satisfying the given conditions.</p>
13	PHYSICAL EDUCATION	<p>A. Make a Project File (Handwritten 6-10 pages) on following topics.</p> <p>Exercise Guideline of WHO for different age Groups helps in development of mental health</p> <p>2. Various committees required for the tournament.</p> <p>Collect data and pictures from newspapers, Magazines, etc</p> <p>B) Make a PPT(10-15 slides) on any one the given topic:</p> <p>Various Types of Tournament</p> <p>Women's participation in sports- physical, psychological and social Benefits</p> <p>C) Prepare a presentation on administration of following Fitness Test:</p> <p>. Write All fitness test batteries of KHELO INDIA in a practical file with pictures.</p> <p>BATTERY OF TESTS</p> <p>AGE GROUP 5-8 YEARS CLASS 1 to 3</p> <p>1. Body Composition (BMI) 2. Coordination (Plate</p>

		<p>Tapping) 3. Balance (Flamingo Balance) AGE GROUP: 9-18+ YEARS CLASS 4 to 12 For Class 4 to 12, It is important for students to have overall physical fitness. The following Components are to be considered in Physical Health and Fitness Profile:</p> <ol style="list-style-type: none"> 1. Body Composition (BMI) 2. Strength a) Abdominal (Partial Curl-up) b) Muscular Endurance (Push Ups for Boys, Modified Push Ups for Girls) 3. Flexibility (Sit and Reach Test) 4. Cardiovascular Endurance (600 Meter Run/Walk) 5. Speed (50 mt. Dash)
14	PHYSICS	<p>1) Students have to creatively prepare a research based project on the topic “Ill effects of over usage of social media on “ Mental health” they can use make use of various mathematical tools as:- pie chart graph ,bar graph to show various comparisons.</p> <p>2) Students have to do research on one of the following topics and submit a report</p> <ol style="list-style-type: none"> a)The use of magnets in MRI scans. b)Capacitors in fans <p>3) Students have to make a collage, on the topic “Need of digital detox for students” They have to show various alternative methods that they can adopt for relaxation ,away from digital media.</p> <p style="text-align: center;">OR</p> <p>Use of various parts of electromagnetic spectrum in everyday life.</p> <p>Note :-</p> <ol style="list-style-type: none"> i)The research work is to be done in a separate project file . ii)Make the collage on A3 sheet.

15

POLITICAL SCIENCE

POLITICAL SCIENCE

CLASS XII

A. Make a Project on any one of the given topics:

I. New centres of power-EU, ASEAN, SAARC, BRICS

II. Popular Environmental movements- Chipko, Narmada Bachao Andolan

III. Globalization

IV. Parties and Party system in India

V. Recent Trends & Developments in Indian Politics

VI. Mandal Commission

VII. Conflicts & Efforts for Peace in South Asia

VIII. India's foreign policy (with reference to Pakistan, China, Israel, Russia & USA

1. Project should be hand written and should not be more than 20-25 pages
2. Should be made on interleave sheets put together in a file
3. The cover page should include the following entries:
 - Name
 - Class & sec
 - Roll no
 - Academic session: 2020-2021
 - Topic
 - Submitted to

4. First page will be CONTENTS and will include the following-

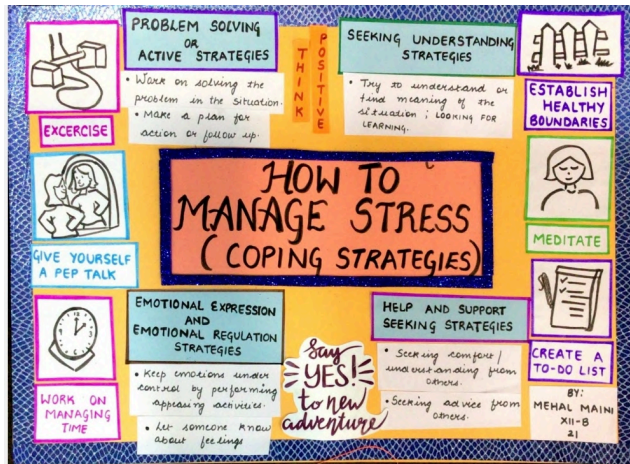
- Introduction
- Acknowledgement
- Chapters related to the topic
- Conclusion
- Bibliography
- Teachers report

5. Second page will be INTRODUCTION emphasizing what all you are going to cover in the

		<p>project in short</p> <p>6. In ACKNOWLEDGEMENT you will acknowledge all those who helped you in making the project.</p> <p>TASK II: Do the important questions in your homework registers from chapters —</p> <ol style="list-style-type: none"> 1. End of Bipolarity 2. New Centres of Power 3. International Organisations 4. Security
16	PSYCHOLOGY	<ol style="list-style-type: none"> 1. Revise the Chapter -1 and practice the MCQ and Case studies given. 2. Develop 2 mind maps on the two approaches of intelligence theories. These have to be hand made in the A-4 size coloured sheet. 3. Prepare a Newsletter on A-3 size cartridge sheet to spread awareness on Promoting Mental Well being -A step towards a better life . <ul style="list-style-type: none"> ● SIZE: A3 ● NO.OF SHEETS : 4 ● Coloured sheets (First sheet to have your details and index of the content) ● What you can include: Article, self composed poem,illustrations,mind -maps,crossword puzzles,quiz,comic strips,dialogue etc. 3. Conduct the mentioned below standardized tests on your case profile - <ol style="list-style-type: none"> a. SCQ, b. RSPM . c. AISS <p>Conduct the given tests on the case profile subject which you have been working on since class</p>

11. Complete the interpretation of the results in the file.

4. Prepare a collage or handout or pamphlet on Dealing with stress. The Size and choice of material i.e. sheet can be of your creative thoughts.



Q5. Complete part 1 (Introduction to Experimental psychology) in practical.

17	PAINTING	<ol style="list-style-type: none"> 1. Visit an Art museum and create a ppt on pictorial evidence of visual concepts. 2. Write a comparative analytical research article on western and Indian Art. 3. Study different postures and Angles of sitting, standing, walking, running animals and humans.
18	TOURISM	<p>TOURISM HOLIDAY HOMEWORK TASK-1</p> <p>Visit, study, research + analyse any government</p>

		<p>service. Make a project outlining the marketing strategy strengths,scope for improvement and compare it with any private services.</p> <p>TASK-2 Create a development plan for tourism product in your area,which should include a detailed study of the tourism product ,its potential + suggestions on its development to encourage tourism activity.</p> <p>TASK-3 Research + collect data in relation to travel documents,travel insurance, weather,currency accomodation,attraction of any one destination in India. Also include possible itinerary information,brochures + marketing strategies</p>
19	WEB APPLICATIONS	<ol style="list-style-type: none"> 1. Create a webpage and insert audio controls so that the user can control playing the music on your webpage. 2. Create a 2 minute movie clip with effects and text on the topic 'Advertisement of new shoes /any other product. Or a movie showing different looks -dresses,hair styles etc. of your favorite actor or player.Add music while showcasing the different looks. 3. Revise Unit -1,2 4. Solve Assignment based on Javascript.