

RANIGANJ LIONS JDM CHANANI DAV PUBLIC SCHOOL

HOLIDAY HOMEWORK

CLASS: XII

SESSION: 2025-26

SUBJECT	QUESTIONS
ENGLISH CORE	<u>HOLIDAY HOME WORK PROJECT WORK</u> Project work is to be prepared as per the instructions listed below. 1. The entire project should be in a file format. 2. The project should be handwritten in blue/black pen (Highlighters can be used). 4. The project report should be developed in the following sequence— • Cover page: School Name, logo, Title statement, Name of the Student and Year/session • Index (list of contents) • Acknowledgements and Preface • Certificate • Introduction statement (The purpose of the Project) • Detailed Project • Learning outcomes/experiences The project should have illustrations/photos/sketches as per the need and suitability with respect to the pattern of the presentation With reference to the chapter ‘Lost Spring’ express your views on ‘ Child labour – a scar on humanity that needs to be eradicated’. (Refer to the global situation with respect to poverty and the measures implemented to substantiate your view. You may insert relevant statistics, pie chart or graphs highlighting the rise of child labour in India and other Asian countries.)

PHYSICAL EDUCATION PRACTICAL RECORD FILE

PRACTICAL – 1

Title: Procedure, Benefits & Contraindications of Asanas for Lifestyle Diseases

Objective: To learn the correct procedure, benefits, and precautions of practicing asanas to manage common lifestyle diseases.

1. Obesity - Definition

Asana 1: Tadasana

Procedure:

Benefits:

Contraindications:

Asana 2: Halasana

Procedure:

Benefits:

Contraindications:

2. Diabetes - Definition

Asana 1: Paschimottanasana

Procedure:

Benefits:

Contraindications:

Asana 2: Ardha Matsyendrasana

Procedure:

Benefits:

Contraindications:

3. Asthma - Definition

Asana 1: Gomukhasana

Procedure:

Benefits:

Contraindications:

Asana 2: Bhujangasana

Procedure:

Benefits:

Contraindications:

PHYSICAL
EDUCATION

	4. Hypertension - Definition Asana 1: Katichakrasana Procedure: Benefits: Contraindications: Asana 2: Makarasana Procedure: Benefits: Contraindications: 5. Back Pain / Arthritis - Definition Asana 1: Ardh-Chakrasana Procedure: Benefits: Contraindications: Asana 2: Ushtrasana Procedure: Benefits: Contraindications: PRACTICAL – 2 Title: Study of IOA Recognized Games – Volleyball, Kho-Kho, Badminton, Football (any one) 1. Volleyball Labelled Diagram: (Draw a court diagram showing zones, net, and dimensions) i. Equipment Used: Volleyball Net (2.43m for men, 2.24m for women) Antennas ii. Basic Rules: (Any 10 rules) iii. Terminologies: Serve, Spike, Block, Dig, Set iv. Skills: Underhand Serve, Overhead Pass, Spike, Block Kho-Kho: Labelled Diagram: (Draw diagram with central lane, squares, poles, and seating positions)
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	i. Equipment Used: Field (27m x 16m) Poles (at both ends) Chalk/powder for marking ii. Basic Rules: (Any 10 rules) iii. Terminologies: Chaser, Runner, Pole Dive, Kho, Early Kho, Late Kho iv. Skills: Single Chain, Double Chain, Pole Turn, Dodging, Giving Kho Badminton Labelled Diagram: (Draw court diagram showing doubles/singles boundary lines, net) i. Equipment Used: Racket Shuttlecock Net (1.55m high) ii. Basic Rules: (Any 10 rules) iii. Terminologies: Smash, Drop, Rally, Service, Deuce iv. Skills: Underhand Serve, Forehand & Backhand Shots, Drop Shot, Smash Football Labelled Diagram: (Draw field diagram with goal post, penalty box, center circle, etc.) i. Equipment Used: Football (size 5) Goalposts with nets Corner flags, whistle ii. Basic Rules: (Any 10 rules) iii. Terminologies: Dribble, Pass, Offside, Goal, Tackle iv. Skills: Passing, Dribbling, Shooting, Heading , Receiving, Goalkeeping
PAINTING	PAINTING (Practical Work) 1) Drawing Composition based on Daily Life (medium -water colour / colour pencil 2) Still life composition (Colour pencil/ Pencil shading) 3) Portrait Drawing (any medium) 4) Folk art (Madhubani/ Gond) medium acrylic.
STANDARD MATHEMATICS	Write all 10 activities in your shoe lace file which has been provided in your class whatsapp group.

APPLIED MATHEMATICS	<u>PROJECT WORK 1 :-</u> Each day newspaper tells us about the maximum temperature, minimum temperature and humidity. Collect the data for a period of 15 days and represent it graphically. Compare it with the data available for the same time period for the previous year. <u>NOTE :-</u> • Draw any type of graph for comparison. • Use graph sheet and paste each graph sheet on the separate interleaf page. • Write proper scale and heading on each graph sheet. <u>PROJECT WORK 2 :-</u> Plot the graphs of functions on excel and study the graph to find out the point of maxima/minima. <u>PROJECT SHOULD HAVE THE FOLLOWING:-</u> • Index • Acknowledgement • Content of the project • Conclusion • Bibliography
BIOLOGY	A. Write the following practicals in your practical copy. 1. Prepare a temporary mount to observe pollen germination 2. Pollen germination on stigma through a permanent slide or scanning electron micrograph. 3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides. 4. T.S. of blastula through permanent slides (Mammalian), 5. Study the plant population density by quadrat method. 6. Study the plant population frequency by quadrat method. 7. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc 8. Mendelian inheritance using seeds of different colour/sizes of any plant. 9. Meiosis in onion bud cell or grasshopper testis through permanent slides 10. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness. 11. Common disease causing organisms like Ascaris, Entamoeba,

Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.
12. Prepare a temporary mount of onion root tip to study mitosis.
13. Models specimen showing symbiotic association in root nodules of leguminous plants, Cuscuta on host, lichens.
14. Flash cards models showing examples of homologous and analogous organs.
15. Controlled pollination - emasculation, tagging and bagging.

B. TO PREPARE AN INVESTIGATORY PROJECT ON ANY TOPIC OF YOUR CHOICE

SUGGESTED TOPICS FOR THE INVESTIGATORY PROJECT

1. Diabetes and health
2. HIV and AIDS
3. Drug addiction
4. Sickle Cell Anaemia: Molecular basis
5. Covid-19: the pandemic
6. Ozone depletion and its effect on mankind
7. Effects of Parthenium on humans
8. Cancer and cell division
9. Biological Nitrogen Fixation
10. Blood grouping: Bombay phenotype
11. Cloning in organism.
12. Alzheimer's and Dementia
13. Possible effects of maternal behaviour on foetal development
14. Biological Oxygen Demand (BOD) as pollution indicator in water body
15. Agrochemicals and their effects
16. Impact of local industry on environment
17. Drug resistance in bacteria
18. Coral reef: existence and depletion

FORMAT TO BE FOLLOWED:-

- a) 1st Page-Name of the school, Investigatory Project, name, class, section, Board roll no., subject, Guide teachers' name
- b) 2nd Page-Certificate
- c) 3rd Page-Acknowledgement
- d) 4th Page-Index

	e)5thPage-Aim/Objective f)6th Page onwards-Project Report g)Conclusion h)Bibliography # Maximum no.of page should not exceed 20 # Project is to be written in shoelace file #Project should be handwritten # Pictures/diagrams(coloured) may be pasted
PHYSICS	A. Write the following the given activates in the shoe lace file given from school; Activities 1. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. 2. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 3. To assemble the components of a given electrical circuit. 4. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram. 5. To observe diffraction of light due to a thin slit. (write these activities from any standard lab manual) B. Prepare an investigatory project as per the format given below . FORMAT • 1st page: Name of the school, Investigatory project, Name of the student, class, section, roll no., Subject, Guide teacher's name. • 2nd page: Certificate • 3rd page: Acknowledgement • 4th page: Index • 5th page: Aim/Objective

	• 6th page onwards project report • Conclusion • Bibliography ❖ Project is to be written in channel file. ❖ Project should be hand written. ❖ Pictures/diagrams (coloured) may be pasted. 1. To study various factors on which the internal resistance/EMF of a cell depends. 2. To study the variations in current flowing in a circuit containing an LDR because of a variation in (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR. 3. 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. 4. 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. 5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids. 6. 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. 7. To study the earth's magnetic field using a compass needle -bar magnet by plotting.
CHEMISTRY	<u>Activity/Practical :</u> AISSCE INVESTIGATORY PROJECT 2025-26 Investigatory project topics for class XII 1. Sterilization of water using bleaching powder 2. To determine the amount of acetic acid in different type of vinegar. 3. Determination of caffeine in a tea sample. 4. Presence of Casein in different milk sample. 5. Determine the hardness of water from different sources. 6. Neutralization ability of different antacids. FORMAT TO BE FOLLOWED:- a)1st Page-Name of the school, Name of Investigatory Project,

	Student name, class, section, roll number, subject. b) 2nd Page-Certificate c) 3rd Page-Acknowledgement d) 4th Page-Index e) Project main content f) Bibliography. NOTE : A. To prepare the INVESTIGATORY PROJECT (any one) use shoelace file of DAVCAE . B. PROJECT MUST BE HAND WRITTEN & FIRST 3 PAGES MUST BE PRINTED.
ACCOUNTANCY	PROJECT WORK TOPIC : <u>One</u> Specific Project based on financial statement analysis of a company covering any <u>two</u> aspects from the following: 1. Comparative and common size financial statements 2. Accounting Ratios 3. Segment Reports 4. Cash Flow Statements Note: Students will prepare Comparative and Common Size Balance Sheet and Statement of Profit and Loss on the Financial Statements of different companies as already provided. The format for presentation of report which should be arranged in the following sequence: a) External cover page b) Acknowledgement c) Certificate d) Executive summary e) Index f) Introduction to the topic (Introduction, objectives) g) Comparative Statements h) Common Size Statements
BUSINESS STUDIES	PROJECT WORK TOPIC : Students will choose <u>any one</u> of the following topics: 1) Elements of business environment 2) Principles of management 3) Stock exchange 4) Marketing The project report will be developed in the following sequence: => Cover page should project the title, student information, school and year.

	=>Acknowledgements and preface (acknowledging the institution, the newspapers read, T.V. channels viewed, places visited and persons who have helped). =>Certificate =>List of contents. =>Introduction. =>Topic with suitable heading. =>Planning and activities done during the project, if any. =>Observations and findings while conducting the project. => News paper clippings to reflect the changes of share prices. =>Conclusions (summarised suggestions or findings, future scope of study). => Appendix (if needed). =>Teachers report.
ENTREPRENEURSHIP	PROJECT WORK TOPIC : MARKET SURVEY(Any ONE of the following to be chosen) A. Conduct a simple market research with the objective of estimating demand for an existing product in the market. Students will have to give an innovative suggestion to the product. OR B. Conduct a survey for a new innovative product. The format for presentation of report which should be arranged in the following sequence: - External cover page - Acknowledgement - Certificate - Executive summary - Index - Introduction to the topic (Introduction, objectives) - Questionnaire(Comprising 10 questions)
ECONOMICS	<u>Prepare a Project Report on any one topic from the following:</u> <u>Any topic from Macroeconomics</u> <u>Any topic from Indian Economy</u> <u>Any current Economic issue .</u> <u>Any case study or news report or news paper article with economic analysis.</u> <u>Read other project topic related suggestions given in the syllabus in the CBSE CURRICULUM.</u> <u>Note:</u>

	<u>Use Interleaf page to write your project .</u> <u>Paste and Draw relevant pictures.(Use White sheet or page)</u> <u>Project should be completely handwritten .</u> <u>Project should have the following:</u> <u>1. Index</u> <u>2. Acknowledgement</u> <u>3. Introduction to the topic</u> <u>3. Content of the project</u> <u>4.Research work.</u> <u>5. Conclusion</u> <u>6. Bibliography</u> <u>Follow all the instructions given in class related to the project work.</u>
GEOGRAPHY	Geography (Practical Work) 1) Data- Its Source and Compilation. What is Data Need of Data Sources of Data (Primary and Secondary sources of data) Tabulation and classification of Data Processing of Data Grouping of Data. 2) Data processing. Measures of central tendency (mean, median and mode). Do your practical work in a big size interleaf shoelace file.
HISTORY	PROJECT WORK TOPIC : Students are instructed to take the topic prescribed to them in the class. Project work is to be prepared as per the instructions listed below. 1. The entire project should be in a file format. 2. The project should be handwritten in blue/black pen (Highlighters can be used). 4. The project report should be developed in the following sequence—

	• Cover page: School Name, logo, Title statement, Name of the Student and Year/session • Index (list of contents) • Acknowledgements and Preface • Certificate • Introduction statement (The purpose of the Project) • Detailed Project • Learning outcomes/experiences ➤ The project should have illustrations/photos/sketches as per the need and suitability with respect to the pattern of the presentation
POLITICAL SCIENCE	TO PREPARE A PROJECT ON ANY TOPIC OF YOUR CHOICE FORMAT TO BE FOLLOWED:- a) 1st Page-Cover Page Name of the school, Name of the Investigatory Project, Name of the Student, Class, Section, Roll no., Subject, Guide Teachers' Name b) 2nd Page-Certificate c) 3rd Page-Acknowledgement d) 4th Page-Index e) 5th Page-Aim/Objective f) 6th Page onwards-Project Report g) Conclusion h) Bibliography # Project should be handwritten in shoelace file # Pictures/diagrams (coloured) may be pasted <u>SUGGESTED TOPICS FOR THE INVESTIGATORY PROJECT</u> 1. United Nations and its Organizations 2. Globalization 3. Challenges of Nation Building 4. The Crisis of Democratic Order

1. Write a program to show entered string is a palindrome or not.
2. Write a program to show statistics of characters in the given line (to counts the number of alphabets, digits, uppercase, lowercase, spaces and other characters).
3. Write a program to show GCD of two positive numbers using function.
4. Write a program to swap the content with next value, if it is divisible by 7 so that the resultant array will look like: 3,5,21,6,8,14,3,14.
5. Write a program to show and count the number of words in a text file 'DATA.TXT' which is starting/ended with a word 'the'.
6. Write a program to read data from a text file DATA.TXT, and display each word with number of vowels and consonants.
7. Consider the table EMPL & DEPT given below and write queries based on it.

Table: EMPL

empno	ename	job	mgr	hiredate	sal	comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	1600.00	300.00	30
8521	SETH	SALESMAN	8698	1991-02-22	1250.00	500.00	30
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985.00	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	1250.00	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8882	SHIAVNSH	MANAGER	8839	1991-06-09	2450.00	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500.00	0.00	30
8886	ANOOP	CLERK	8888	1993-01-12	1100.00	NULL	20
8900	JATIN	CLERK	8698	1991-12-03	950.00	NULL	30
8902	FAKIR	ANALYST	8566	1991-12-03	3000.00	NULL	20
8934	MITA	CLERK	8882	1992-01-23	1300.00	NULL	10

Table: DEPT

deptno	dname	loc
10	ACCOUNTING	NEW DELHI
20	RESEARCH	CHENNAI
30	SALES	KOLKATA
40	OPERATIONS	MUMBAI

- a. Write a query to display EName and Sal of Employees whose salary is greater than or equal to 3000 from table EMPL.
- b. Write a Query to display Employee Number, name, sal and sal*12 as Annual Salary whose commission is not NULL from table EMPL.

	c. Write a Query to display name, job, salary, and HireDate of Employees who are hired between February 20, 1991, and May 1, 1991. Order the query in ascending order of HireDate. d. Write a Query to display distinct JOB along with number of Employee in each job from table EMPL. e. Write a Query to display the name of Employee whose name contains 'M' as third alphabet. f. Write a query to display the current system date. g. Write a Query to display Employee number, name, salary, salary increase by 15%. Label the column as New Salary. h. Write a query which displays the Employee name with the first letter capitalized and all other letters lower case and length of their name string. i. Write a Query to Display the Sum, Average, Highest and Lowest salary of the Employees grouped by department number. j. Write a query to display the difference of Highest and lowest salary of each department having maximum salary > 4000.
INFORMATICS PRACTICES	1. Write a Pandas program to create series and change the index of the series objects in any random order. 2. Write a Pandas program to add, subtract, multiple and divide two Pandas Series. 3. Write a Python Program to perform head() & tail() Functions on DataFrame. 4. Write a Python Program to create the DataFrame and selecting rows/column using loc and iloc function. 5. Write a program that reads from a csv file (marks.csv stored in desired location) in a DataFrame then add a column Total storing total marks in three subjects and another column for storing average marks. Print the DataFrame after adding these columns. 6. Consider the table EMPL & DEPT given below and write queries based on it.

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Table : DEPT

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- Write a Query to display Employee Number, name, sal and sal*12 as Annual Salary whose commission is not NULL from table EMPL.
- Write a Query to display name, job, salary, and HireDate of Employees who are hired between February 20, 1991, and May 1, 1991. Order the query in ascending order of HireDate.
- Write a Query to display distinct JOB along with number of Employee in each job from table EMPL.
- Write a Query to display the name of Employee whose name contains 'M' as third alphabet.
- Write a query to display the current system date.
- Write a Query to display Employee number, name, salary, salary increase by 15%. Label the column as New Salary.
- Write a query which displays the Employee name with the first letter capitalized and all other letters lower case and length of their name string.
- Write a Query to Display the Sum, Average, Highest and Lowest salary of the Employees grouped by department number.
- Write a query to display the difference of Highest and lowest salary of each department having maximum salary > 4000.

HOME SCIENCE	HOME SCIENCE PRACTICAL (Write the following practicals in your practical files) 1.Modification of normal diet to soft diet for elderly person. 2.Development and preparation of supplementary foods for nutrition programme. 3.Planning a menu for a school canteen or mid-day meal in school for a week. 4.Design, prepare and evaluate a processed food product. 5.Qualitative test for food adulteration in: pure ghee, tea leaves, whole black pepper, turmeric powder, milk, asafoetida. PROJECT 1.Market survey of any five processed food items with their packaging and labeling information.
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