

**SONA MODERN PUBLIC SCHOOL
HOLIDAY HOMEWORK (2025-26)**

CLASS-XII

Fun “n” Summer

As the school closes for a long summer break from 19.05.2025 to 30.06.2025 which is the most enviable part of school life. It provides time for rest and leisure. Every child enjoys the holidays in laze around, eat, play visits and to revive the things. But duties must not be forgotten. So balance should be maintained between recreation and work. We have planned some activities and work to enhance his/her learning skill in a fun filled way. We have tried to make the work enjoyable. Help your child to do the work. All the holiday homework should be done as per instruction

- ❖ All the given works will be done in the A-4 size sheet and put in the folder made by you with eco-friendly material.
- ❖ The practice work will be done in the copy.
- ❖ Every work should be decorative.
- ❖ At the end write the activity which you like most and why.
- ❖ Students must ensure that the work should be done efficiently as the work will be marked and marks will be added in the result.
- ❖ All children have to learn and complete the work in the holidays and have to submit on its due date after the school reopen
- ❖ **The school will reopen on 01.07.2025**

ENGLISH

1. Write a report on:

- (a) The book fair organised in your school recently (b) Sports day celebration held in your school
- (c) A road accident you witnessed while coming home

2. Write a job application with biodata for

- a) The post of accountant in a reputed firm. Attach your biodata.
- b) For the post of mathematics teacher in St. Stephens public school Noida.
- c) For the post of computer operator in a reputed company.

3. Write a letter to the editor on:

- (a) increasing number of road accidents due to stray animals.
- (b) unannounced power cuts in your locality.
- (c) increasing awareness for child rights and abolition of child labour

4. Write a formal invitation for:

- (a) the annual sports meet to be organised in your school.
- (b) inviting Chief Guest in the annual day celebration at your school.
- (c) write a reply sending your acceptance for attending the annual function as Chief Guest.

5. Write an article on

- a) Child Labour (b) Environmental Pollution and global warming. (c) Conservation of wild life

6. Write a notice for

- a) blood donation camp (b) inter school football match (c) meeting of student council with the principal

7. Write two unseen passages for comprehension with solutions.

8. Make project on Lost Spring

9. Revise the chapters completed in the class.

MATHEMATICS

1. Prepare a Project file on the topic “Relations and Functions” containing atleast 10-15 sheets. Use coloured papers and sketch pens. It carries marks in final term mathematics practical.

Guidelines for submitting the project:

- a. Explaining different types of Relations like Reflexive, Symmetric etc. & Functions like One-One, Onto etc.
- b. Use A4 size sheets.
- c. It should be handwritten project.
- d. The file should be creative and images drawn or pasted must relevant to the topic.
- e. It should have proper index.

2. Do activity 1 to 4 of Lab Manual in lab activity notebook.
3. Revise Ch- Matrices, Ch- Determinants; Ch- Relations and Functions from NCERT with examples sincerely in practice Notebook with given worksheet
 1. Prove that $f(x) = 3x + 2$ is bijective from $\mathbb{R} \rightarrow \mathbb{R}$.
 2. Define the relation $R = \{(a, b) \in \mathbb{Z} \times \mathbb{Z} : a - b \text{ is even}\}$. Prove that R is an equivalence relation.
 3. Let $f(x) = x^2 + 1$. Examine whether the function is one-one and/or onto from $\mathbb{R} \rightarrow \mathbb{R}$, and justify your answer.
 4. Case Study: A taxi fare function is defined by $f(d) = 40 + 12d$ where d is the distance in km. (a) Is the function one-one? (b) Find the inverse function and interpret its meaning. (c) What is the distance when the fare is ₹100?
 5. Case Study: A company sells 3 products. Daily sales data is: Branch A: 20, 30, 40 units of products P1, P2, P3. Branch B: 25, 20, 30 units. Cost per unit: ₹10, ₹20, ₹15 respectively. Using matrices, find total sales per branch and combined total.
 6. Prove that the value of determinant remains unchanged if we add a scalar multiple of one row to another row.
 7. Case Study: Three farmers have crop yield (in tonnes): Farmer A: 5, 8, 6 of wheat, rice, and sugarcane; Farmer B: 4, 7, 9; Farmer C: 6, 9, 5. Use determinant method to find whether their combined output matrix is invertible.
 8. Show that if two rows (or columns) of a determinant are equal, the value of the determinant is zero.
 9. Find the area of a triangle with vertices A(2, 3), B(4, 5), and C(1, 1) using determinant method.
 10. Solve the following system using Cramer's Rule: $x + y + z = 6$, $2x + 3y + z = 10$, $x + 2y + 3z = 13$
 11. Solve for x, y using inverse matrix method: $3x + 2y = 16$, $x - y = 4$
 12. If A is a skew - symmetric and $n \in \mathbb{N}$ such that $(A^n)^T = \lambda A^n$, write the value of λ .
 13. Let $A = \begin{bmatrix} 1 & 2 & 1 \\ 2 & 3 & 1 \\ 1 & 1 & 5 \end{bmatrix}$. verify that $[\text{adj } A]^{-1} = \text{adj } (A^{-1})$

HINDI

प्रश्न 1- किसी एक विषय पर परियोजना कार्य तैयार करें

I- जल ही जीवन है.

II -भीमराव अंबेडकर और उनकी विचारधारा

III - हालावादी कवि हरिवंश राय बच्चन

IV-सोशल मीडिया और हम

प्रश्न 2- 120-150 शब्दों में रचनात्मक लेख लिखिए

I- मेरे जीवन की पहली कमाई

II युद्ध के साए में हम

प्रश्न 3 - समाचार पत्र से किसी एक समाचार की कटिंग काटकर चिपकाएं और बताएं कि इनमें 6 ककारों का प्रयोग कहाँ हुआ है।

प्रश्न 4- राष्ट्रीय संग्रहालय जाइए तथा मुअनजो-दड़ो और हड़प्पा सभ्यता से संबंधित जानकारी एकत्र कीजिए।

ACCOUNTANCY

Part : Project Work based on CBSE.

Make a project on the topic assigned according to your roll numbers. The project carries 20 marks according to marking scheme provided by CBSE boards. Topics already shared on Class group as well and explained in the class.

Project- Specific Company assigned to you (Give print out of Data discussed in class)

Do scanner questions of all chapters done in class in new copy (last year 10 year questions)(given in the back of book)

BUSINESS STUDIES

Q-1 Make a project on the topic assigned according to your roll numbers

Topics- marketing management, principle of management, business environment

Q-2 Do the given case studies in your business notebook

Chapter 1 nature and significance of management page no- 42 and 43 Q-6,7,8,9

Chapter 2 principle of management page no- 110,111 Q-7,8,9

Chapter 3 marketing management page no-168,169 Q-2,3,4,7,9

Q-3 Do the given questions in your business notebooks

a-why is management considered to be a multidimensional concept

b- explain any four points highlighting the nature of principles of management

c- explain method study fatigue study and differential piece wage system

ECONOMICS

Part : Project Work based on CBSE.

1. Make a project on the topic assigned according to your roll numbers. The project carries 20 marks according to marking scheme

provided by CBSE boards. Topics already shared on Class group as well and explained in the class.

TOPIC

1. SSI - SMALL SCALE INDUSTRY

2. GST - GOODS & SERVICE TAX

3. DEMONETISATION

4. RWH - RAIN WATER HARVESTING

5. SHG- SELF HELP GROUP

2. Make 10 MCQ questions from each chapter done in class

3. Do case study questions / source based questions in your copy of each chapter,

PHYSICAL EDUCATION

(THEORY WORK)

Theory work need to be done in physical education notebook.

Q1. Define management. Explain in detail the functions of sports events management?

Q2. Define combination tournament. Draw a fixtures of 16 teams using Knockout-cum-league method?

Q3. Define spinal curvature deformities and list their causes and precautions?

Q4. Write in brief the corrective measures of bow legs, knock knees and flat foot ?

Q5. Which are the asanas practised for preventing hypertension, obesity and diabetes ? Write in detail about any two of them?

Q6. Explain surya-namaskar with their diagram of each step ?

Q7. Plan a strategy for making physical activity accessible for children with special needs?

Q8. Write in detail about paralympic , and deaflympic ?

Q9. What do you mean by Healthy Weight ?

Q10. What is B.M.I, and make a Table of BMI ?

(PRACTICAL WORK)

Practical work needs to be done in practical file.

Q1. Learn and prepare all test (that you have already written in your practical file) SAI KHELO INDIA TEST ?

Q2. Learn, prepare and practice of Two asana of each lifestyle disease (that you have already written in your practical file) Ex Asanas – benefits, procedure and contradictions?

Q3. Write IOA recognised sport/game of your choice in your practical file and sub mention topic related to your game needs to be follow. Eg – volleyball

➤ Diagram of ground/court/track

➤ Equipment

➤ Rule regulations

➤ Terminology & skills

➤ Arjun award (any 10)

POLITICAL SCIENCE

XII – B

Prepare a project according to CBSE guidelines.

Some suggested topics are:

1. Partition- Theory behind it and its legacy

2. Evolution of State boundaries after 1956

3. China or India – The next Super Power

4. India's relation with its Neighbours (specially focus on SAARC)

5. Emergency- Reasons and Consequences

6. NITI AAYOG v/s Planning Commission: Role in India's development

XII – C

Prepare a project according to CBSE guidelines.

Some suggested topics are:

1. European Union and Brexit
2. UN and its agencies
3. North East: India's Untapped Frontier
4. One Party Dominance Then and Now
5. India's Foreign Policy
6. India's relation with its Neighbours
(specially focus on China and Pakistan)
7. India in 1975, chronological political events
8. Operation Blue Star
9. Globalisation and its impact
10. Jammu and Kashmir With or Without Article 370
11. Politics of Reservation in India
12. Security in the Contemporary World
(Specially focus on Terrorism and Migration)
13. Election Commission- its changing role and importance
14. Regional Aspiration – Separatist Movement- Punjab
15. Do opposition parties still exist in Indian politics?
16. National integration and party politics
17. Election 2014, 2019 and 2024, BJP V/s Congress
18. India's relation with its Neighbours
(specially focus on Nepal and Bangladesh)

FINAL PRESENTATION/LAYOUT OF THE PROJECT

Section 1: Political Science Project (Title of the Project)

Name: School: Year: Roll no.:

Section 2: Certificate of authenticity (To be pasted)

Teacher's Signature

Section 3: Index

Section 4: Acknowledgement (Acknowledging the institution, the place visited and the person who has helped.)

Section 5: Preface: Problem Statement/Objective of the project

Section 6: Introduction: (Objective/learning outcomes of the project. Introduce the selected topic by giving some historical background)

Section 7: Summary of the topic Activities done during the project

Section 8: Observations and Analysis

Section 9: Conclusion Summarized suggestions of findings/Future scope of study

Section 10: Appendix Person consulted, Bibliography, Books, Websites, Films/ Television referred.

Section 11: Values and Life skills learned through the project

Section 12: Draft Thank you.

General Instructions:

1. Project should be individual only
2. It should be a handwritten project on a A4 size sheet.
3. Project should be summed up in 40 – 45 pages.
4. It should be well researched based on facts and figures and pictorial.
5. The project must have a Table of contents, Title/ Cover page, Acknowledgement, Bibliography, Analysis with headings and sub-headings.
6. It must include relevant news clippings, facts and figures, pictures.
7. You can plan a survey or an interview to support your research.
8. Make a question bank which is based on chapters we have already completed in the class. 20 questions from each chapter. Questions will include 1, 2, 4 and 6 marker questions.

9. Read the Newspaper daily and prepare a collage on the highlighted issues in Indian polity.
10. Take Political maps and locate the following:
- a) Axis Powers and Allied Powers b) NATO countries
 - c) Warsaw countries (Any Five) d) Countries which were affected after disintegration of USSR.
 - e) State formation after independence along with the year

HISTORY

1. Prepare a project according to CBSE guidelines.

Some suggested topics are:

- Town planning and Artefacts of the Harappan civilization
- Mahabharata through a Readers eye.
- Through the eyes of Travelers.
- Bhakti-Sufi Movement in India Kabir, Guru Nanak
- Great philosophers of India- Gautam Buddha and Mahavira.
- The Vijayanagar empire

Some suggested topics are:

- The tribal groups of India- The Paharias and the Santhals.
- Role of Mahatma Gandhi in the nationalist movement.
- The Constitution of India- Framing, implementation, importance.
- Revolt of 1857
- Jainism and Buddhism
- Rise of Magadha
- The mysteries behind the mound of dead – Mohenjo-Daro
- Buddha's Path to Enlightenment
- Bernier's notions of The Mughal Empire
- Rani Laxmi Bai : Woman who created history
- "Mahatma Gandhi" – A legendary soul
- To reconstruct the History of Vijaynagara
- A Hindu Mystic : Mira Bai
- Land Revenue Systems introduced by the Britishers in India
- Gupta Dynasty (Golden Era)
- Political and Economic History from Mauryan to Gupta period
- Puranic Hinduism (Vedic, Jainism, Vaishnavism, Shaivism)

XII - B

1. Prepare a project according to CBSE guidelines.

Some suggested topics are:

- Town planning and Art effect's of the Harappan civilization
- Mahabharata through a Readers eye.
- Through the eyes of Travelers.
- Bhakti-Sufi Movement in India Kabir, Guru Nanak
- Great philosophers of India- Gautam Buddha and Mahavira.
- The Vijayanagar empire

XII - C

Some suggested topics are:

- The tribal groups of India- The Paharias and the Santhals.
- Role of Mahatma Gandhi in the nationalist movement.
- The Constitution of India- Framing, implementation, importance.
- Revolt of 1857
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- Gupta Dynasty (Golden Era)
- Political and Economic History from Mauryan to Gupta period
- Puranic Hinduism (Vedic, Jainism, Vaishnavism, Shaivism)

FINAL PRESENTATION/LAYOUT OF THE PROJECT

Section 1: History Project (Title of the Project)

Name: School: Year: Roll no.:

Section 2: Certificate of authenticity (To be pasted)

Teacher's Signature

Section 3: Index

Section 4: Acknowledgement (Acknowledging the institution, the place visited and the person who has helped.)

Section 5: Preface: Problem Statement/Objective of the project

Section 6: Introduction: (Objective/learning outcomes of the project. Introduce the selected topic by giving some historical background)

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Section 10: Appendix Person consulted, Bibliography, Books, Websites, Films/ Television referred.

Section 11: Values and Life skills learned through the project

Section 12: Draft Thank you.

General Instructions:

- The project work to be done individually.
 - Each student should select one topic.
 - Each student to have a separate project file.
 - The project should be of minimum 40-50 pages each.
 - Use colourful sheets for the work; folder should be handmade and beautifully decorated.
 - The project should be totally research and survey based.
 - The project must be neat and well-presented and must be completely handwritten.
 - The topic must be first approved by the teacher.
 - The project should be done on inter leaf A-4 sized sheets.
 - Students must preserve the initial draft of the project as well as any research papers that they may have used. (To be attached at the end of the project)
2. Practice Maps of each lesson taught in the class and paste them.
 3. Go through the sources given in each chapter and make at least 4 questions with answers from each Source

PSYCHOLOGY

- PROJECT:** Prepare a detailed Case-Study file on any one individual by focusing on his/her basic details, family history, medical history, habits, interests and talents, personality, anxiety, self-concept and adjustment.
- Interview any one person (a family member, neighbor, or friend) about a stressful situation they faced. Describe the type of stress, the coping strategies they used, and the outcome.
- Describe the main features of Carl Rogers' theory of personality. How does his concept of the "fully functioning person" differ from Freud's idea of a healthy personality?
- Compare and contrast Type A and Type B personality types. Give real-life examples (from observation or media) to support your answer.
- What are defense mechanisms? List and explain any five defense mechanisms with examples from daily life or fictional characters.

NOTE: Do Ques. II, III, IV and V on A4 size sheets.

GEOGRAPHY

➤ **PART1**

➤ **PROJECT FILE**

Q.1. Make a project on the topics assigned according to students roll number in class and topics have already shared on class group as well and explained in the class.

➤ **PROJECT 1- PRIMARY ACTIVITIES** (meaning of Primary activity, Type of primary activities, Pastoralism, Agriculture, Mining , comparative analysis, Map and conclusion)

➤ **PROJECT 2- SECONDARY ACTIVITIES**

➤ (manufacturing classification of Manufacturing industries , World's most important Manufacturing industries , comparative analysis ,map and conclusion)

➤ **PROJECT 3-TERTIARY AND QUARTERNARY ACTIVITIES**

➤ (Meaning of Tertiary activities, Types of Tertiary activities, people engaged in tertiary activities, Tourism- an important Tertiary activities, Quaternary Activities , Digital divide ,map conclusion.

➤ **PART 2**

➤ **PRACTICAL WORK**

➤ Practical work need to be done in practical notebook

➤ Chapter 1 and 2

➤ **PART 3**

➤ **THEORY WORK**

➤ Theory work need to be done in theory notebook

➤ **Chapter - 3 HUMAN DEVELOPMENT**

Q.1.Development is general and human development, in particular, is a complex concept used in social science.” Justify this statement with suitable arguments.

Q.2.Explain the different approaches to human development

Q.3.The size of a territory and per capita income are not directly related to human development.” Support the statement with examples.

Q.4.Explain why Kerala has a higher level of human development than other states of India.

Q.5.How “Human Development Index measured “? Explain key areas of Human Development.

Q.6.Explain the Main aspects of the ‘ basic need approach ‘ of human development.

Q.7.Why do some countries have medium level of human development ? Explain

Q.8. Development is a qualitative change, which is always value positive.” Support this statement with any three suitable arguments.

Q.9. Leading a long and healthy life is an important aspect of human development.” Give an argument to support this statement.

Q.10. Explain the concept of ‘Equity’ and ‘Sustainability’ as the pillars of human development.

INFORMATICS PRACTICES

(PRACTICAL WORK)

Data Handling using PANDAS (Series and DataFrame)

1 Create a pandas series from tuple

2 Create a pandas series from list and rename their row indices

3 Create a pandas series from dictionary and displaying selected elements at specific indices of the series

4 Create a pandas series from ndarray

5 Create a pandas Series from list and update the series element at specific index

6 Create two pandas series from two ndarrays containing marks of a student in two terms and add elements of both series to find total marks obtained in both the terms

7 Create a pandas series from list and display the output of head() & tail() functions on series and also show slicing on series.

8 Create a pandas series from ndarray and delete the element from series using del and pop

- 9 Create a pandas data frame from ndarray and display elements of selected columns and rows of a data frame
- 10 Create a pandas DataFrame using dictionary and add column and row into the data frame
- 11 Create a pandas DataFrame using dictionary and delete column and row from the data frame
- 12 Create a pandas DataFrame using dictionary of series and display output of data frame using head() and tail() function
- 13 Create a pandas DataFrame using list of dictionaries and display elements of data frame using row wise and column wise iteration
- 14 Create a pandas DataFrame using dictionary of lists and create Boolean indexing and display elements of data frame using boolean index
- 15 Create dataframe and writing it into csv file and read the csv file then display data from csv file

FINE ART

1. Painting Composition (draw any two)

- Imaginative painting based on subject from life and nature in water and poster colours.
 - i) Affairs of family, friends and daily life
 - ii) Games and sports activities
 - iii) National, religious, cultural, historical and social events and celebrations.

2. Objects Study

- Arrange Two or three objects with drapery (in different colours for background) water colour(half imperial)
- Draw any five still life (composition) any medium(half imperial)

3. Nature study

- Draw any two beautiful landscape (water colour)
- Draw any two nature study object (any medium)

4. Draw any one beautiful painting (any medium)

- *Madhubani OR Warli Art*

CRAFT

Make any 2

cardboard bird house----in this activity you have to use only the waste material.

#Empty bottle craft work---use old empty bottle and you have to make different types of objects.

Old bangles craft ----In this activity you have to use old bangles and make home decorating..