

ARMY PUBLIC SCHOOL, CHANDIMANDIR
SESSION: 2020-21
HOLIDAYS HOMEWORK
CLASS-X

English

1. Write a **diary entry**, fortnightly, and record your thoughts and emotions based on the events that occurred due to the ongoing COVID-19 pandemic (in those two weeks) in about **150-180** words.
Points to be kept in mind while writing:-
 - a. Present your thoughts in a convincing manner
 - b. Use words and phrases that convey your feelings and 'paint pictures' for the readers.
2. Write the **character sketches** of-
 - a. Lencho (A Letter to God)
 - b. Wanda Petronski, Peggy and Madeline (The Hundred Dresses- I& II)
 - c. Ausable (The Midnight Visitor)
 - d. Anil (The Thief's Story)
3. Describe the following **poetic and literary devices** and give examples (2 each) from the **poems and chapters** done in the class.
 - a. Simile
 - b. Metaphor
 - c. Repetition
 - d. Personification
 - e. Transferred Epithet
 - f. Symbolism
 - g. Onomatopoeia
 - h. Refrain
 - i. Oxymoron
4. Complete the written work of all the chapters covered in the class.

Hindi

- १ अलंकार का फ्लोचार्ट बनाएं एवं सभी अलंकारों के दो दो उदाहरण दें।
- २ 25 मुहावरों पर आधारित अंताक्षरी (अंत के अक्षर से अगला मुहावरा लिखें) बनाएं एवं वाक्य का निर्माण करें।
- ३ कोविड तथा लॉकडाउन के दौरान आदर्श सामाजिक व्यवहार के विषय पर दैनिक समाचार के संपादक को पत्र लिखें।
- ४ एक बालक पुस्तक लिए घर पर चुपचाप बैठा था ,तभी दरवाजे पर दस्तक हुई.....
इस लघु कथा को २०० शब्दों में पूर्ण करें।

Maths:

- **Activities** (To be done in separate Activity file)
- (i) To find out the zeroes of the polynomial graphically :
 - (a) $p(x) = 2x + 3$
 - (b) $p(x) = x^2 - 3x - 4$
 - (ii) To obtain the conditions of consistency and inconsistency of a system of linear equations in two variables by graphical method :
 - (a) $x + y - 5 = 0$; $x - y - 5 = 0$
 - (b) $x + y - 1 = 0$; $2x + 2y - 2 = 0$
 - (c) $x - 2y - 6 = 0$; $3x - 6y + 15 = 0$
 - (iii) Find the HCF and LCM of number of patients of COVID-19 in following states by prime factorisation method :
 - (a) Maharashtra and Gujarat
 - (b) Delhi and Rajasthan
 - (c) Madhya Pradesh and Tamilnadu
 - (d) Uttar pradesh and Andhra Pradesh
- Practice examples of chapters 1,2,3,13,15 from R.D.SHARMA BOOK in separate note book.(at least 150 questions to be done)

Science

- Make a working model on any topic of your choice. It is compulsory for all students.
- Science holiday homework to be done in a separate notebook.

CHEMISTRY:

- Define the various types of chemical reactions. Give an example of each type from your daily life and write the chemical equation for the reaction.
- Learn the valencies of common elements and radicals. Practise balancing of equations.

BIOLOGY:

- Read Chapter 15: Our Environment.
- On the basis of your understanding of the chapter ; Write five ways by which human activities have adversely affected the environment. Also list five changes you can make in your lifestyle to reduce your consumption of the various natural resources.
- Practise Diagrams of Chapter 6: Life Processes.
- Write a short note on the impact of Coronavirus on the human body and preventive measures to be taken to avoid infection.

PHYSICS:

- Analyse the following observation table showing variation of image - distance (v) with object - distance (u) in case of a convex lens and answer the questions that follow, without doing any calculations :

S. No.	Object distance u (cm)	Image distance v (cm)
1	- 100	+ 25
2	- 60	+ 30
3	- 40	+ 40
4	- 30	+ 60
5	- 25	+ 100
6	- 15	+ 120

- What is the focal length of the convex lens ? Give reason to justify your answer.
- Write the serial number of the observation which is not correct. On what basis have you arrived at this conclusion ?
- Select an appropriate scale and draw a ray diagram for the observation at S.No.2. Also find the approximate value of magnification.

- For the given data showing the focal lens of three concave mirrors A, B and C, and the respective distances from these mirrors.

S.No	Object distance (cm)	Focal length (cm)
A	45	20
B	30	15
C	20	30

Answer the following questions:

- In the given position of the object from the mirrors, which mirror will form a diminished image of the object? Draw a ray diagram for image formation by this mirror.
- Which mirror can be conveniently used as a shaving mirror ? Draw a ray diagram to illustrate this function.

- Practice ray diagrams of images formed by spherical mirrors and lenses.

- Practice examples and exercise questions of Chapter- Light from your NCERT textbook.

- Read Chapter-14-Sources of Energy

- Gather information about various energy sources and how each one affects the environment.
- List at least three merits and demerits of each source and select the best source of energy on this basis

Social Science

1. Read chapter 5 Consumer Right and prepare a project report on consumer awareness in India Project should include following information
 - (i) Causes of Consumer Movement in India
 - (ii) Consumer Protection Act 1986
 - (iii) legal system to redress consumer grievances
 - (iv) Five case studies of consumer violations with reference to online content of magazines like Consumer Vision/Moneylife/Keemat/Website of Department of Consumer Affairs.
 - (v) Consumer international guidelines for Consumer Awareness and Empowerment in COVID-19 situation

The distribution of marks for the assessment of project is as follows:

S. No.	Aspects	Marks
a.	Content accuracy, originality and analysis	2
b.	Presentation and creativity	2
c.	Viva Voce	1

(vi) The Project Report should be handwritten by the students themselves.

2. Revise: **Civics** lesson 1-4, **Economics** Lesson – 1 & 2, **Geography** Lesson 1 & 4

IT Vocational

1. Learn and Write all the Question/Answers of Unit 4 (Subject Skills)- "Managing Workplace Safety" and Unit 1(Employability Skills)- "Communication Skills" in your Notebook.
2. Make a Collage on A4 Sheet on the topic
 - (a) Different types of CommunicationOR
 - (b) Describe how technology has proved to be helpful and useful to students during the lockdown period.
3. Write a note in your note book on the following topic.
 - a) How did technology help you fight (COVID-19) pandemic?

***Note:** Students will do holiday homework of each subject in a separate note book (50 Pages).