# ST. Thomas School, Indirapuram <br> Holiday Homework, 2024-25 <br> Class XI 

## English

1. Read the Newspaper daily and collect one good ARTICLE / FEATURE related to the Elderly and Paste it in your register.
2. Design a POSTER as to how technology can help improve the quality of life for the Elderly.
3. Revise the SYLLABUS done in the class

## Physics

1. Written part of all the experiments in practical file
2. Worksheet ( will be shared as EduNext)
3. Revision of Chapter 1 and 2

## Chemistry

Q. 1 Round up the following upto 3 significant figures 10.4107
Q. 2 Which mode of expressing concentration is dependent of temperature?
a) Molality
b) Mole fraction
c) Mass \%
d) Molarity
Q. 3 What is the volume occupied by 1 mole of dioxygen at STP?
Q. 4 When 22.4 L of $\mathrm{H}_{2}(\mathrm{~g})$ is mixed with $11.2{\mathrm{~L} \mathrm{of} \mathrm{Cl}_{2}(\mathrm{~g}) \text { at STP, how many }}^{2}$ moles of HCl gas will be formed?
a) 1 mol
b) 2 mol
3) 0.5 mol
4) 1.5 mol
Q. 5 A solution is prepared by dissolving 2 g of Substance A to 18 g of water.

Calculate the mass \% of the solute.
Q. 6 How 0.5 m NaOH and 0.5 M NaOH are different?
Q. 7 If 10 volumes of dihydrogen reacts with five volumes of dioxygen gas, how many moles of water vapors are produced?
Is Gay Lussac law holds true here?
Q. 8 Calcium carbonate reacts with aqueous HCl according to the reaction
$\mathrm{CaCO}_{3}(\mathrm{~s})+2 \mathrm{HCl}(\mathrm{aq})$ $\qquad$ $->\mathrm{CaCl}_{2}(\mathrm{aq})+\mathrm{CO}_{2}(\mathrm{~g})+\mathrm{H}_{2} \mathrm{O}(\mathrm{l})$.
What mass of $\mathrm{CaCO}_{3}$ is required to react completely with 25 mL of 0.75 M HCl ?
Q. 9 Determine the empirical formula of an oxide of Iron which has 69.9 \% iron and $30.1 \%$ dioxygen by mass. Atomic masses Fe 56 amu , $\mathrm{O}=16 \mathrm{amu}$
Q. $10 \mathrm{H}_{2} \mathrm{SO}_{4}$ used in lead storage cell is $38 \%$ by mass and has density of $1.03 \mathrm{~g} / \mathrm{m} \mathrm{L}$. Calculate its Molarity.

| 18. Find all pairs of consecutive odd natural numbers, both of which are larger than 10 , such that ther is less than 40. <br> 19. The cost and revenue functions of a product are given by $C(x)=20 x+4000$ and $R(x)=60 x+$ respectively, where $x$ is the number of items produced and sold. How many items must be sold some profit? <br> 20. Let $\mathrm{f}=\{(2,4),(5,6),(8,-1),(10,-3)\}$ andg $=\{(2,5),(7,1),(8,4),(10,13),(11,5)\}$ be two real fu Then match the following: |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | Column II |
| (a) | $f-g$ | (i) | $\left\{\left(2, \frac{4}{5}\right),\left(8, \frac{-1}{4}\right),\left(10, \frac{-3}{13}\right)\right\}$ |
| (b) | $f+g$ | (ii) | $\{(2,20),(8,-4),(10,-39)\}$ |
| (c) | $f \times g$ | (iii) | $\{(2,-1),(8,-5),(10,-16)\}$ |
| (d) | $\frac{f}{g}$ | (iv) | $\{(2,9),(8,3),(10,10)\}$ |

21. Solve the inequality: $(x-2) /(x+5)>2$

## Biology

Puppet making and Posters/ illustration based on Conservation of Environment.

## Computer Science

1. Do the two Worksheets uploaded on Edunext of the Ch-Computer System Organisation and Getting started with Python
2. Create a PowerPoint presentation on the topic "Cyber Safety "refer to Ch-11 of the book computer Science with PYTHON by Preeti Arora.

## Economics

| 1. | Do complete the fair notebook. |
| :---: | :--- |
| 2. | DO the assignment in fair note book. Assignment is given below. |
| 3. | Prepare a small project on "DATA COLLECTION". For project use folder <br> and A-4 sheets. Details regarding project given below. |
| 4. | Answer the general questionnaire "KNOW YOUR CLASS" on A-4 sheets. <br> Questionnaire given below. |



## INSTRUCTIONS REGARDING " DATA COLLECTION POJECT"

| 1. | Select a relevant topic |
| :--- | :--- |
| 2. | Prepare a questionnaire. ( consisting $10-15$ questions) |
| 3. | Get it approved by teacher. |
| 4. | Get it filled by 5 respondents, by using any method of collecting primary data. |
| 5. | Answer the following questions: <br> a. Which type of data is collected by you? <br> b. Which method is used by you? <br> c. Which method of survey is used by you? |
| 6. | Keep all pages in a folder. |

## KYC " KNOW YOUR CLASS"



Note: This is a general questionnaire to know more about the students. Answer the questions on A-4 sheets.

| 1. | Name |
| :--- | :--- |
| 2. | Meaning of your name. |
| 3. | Family |
| 4. | Favourite quotation |
| 5. | Favourite personality |
| 6. | Your Positive aspects |
| 7. | Your negative aspects |
| 8. | Achievements |
| 9. | Goal |
| 10. | Road map to achieve "GOAL" |




## Physical Education

Show in a chart paper the diagram of the court of any one of the major game of IOA recognised sports.

## Fine Arts

1.Market scene with water colour( minimum 4 human figures)
2.still life any with pencil shading.

## Library

Vacation Time ! Time to rejoice and rejuvenate !. This is also the time to put on your creative hats. So let your finger dance around with ink pen, paper, colour, your mind be filled with imagination. "Reading is essential for all those who seek to rise above the ordinary."

1) Read any classic novel and Read Newspaper Daily,
2) Some suggested Author - Ruskin Bond

Sudha Murty
Enid Blyton
Premchand
William Shakespeare

## ACTIVITIES:

CLASS VI TO XI

1) 'BE AN AUTHOR' you are required to write your own story book in English and Hindi. Exhibit your creativity in making caricatures or Pictures according to your story. Decorate your book with an appealing Book Cover.
2) Make a 'WISHLIST' of books that you want to read. 5 Hindi books, 5 English Books.
3) 1 Book Mark and 1 Library Quote (Class 6 \& 7).
4) Make a wall Hanging related to Library with beautiful quotes Be as Creative as possible. (Class -8)
5) Make a V.shaped desktop plate with library quotes (refer to the picture attached) (for class 9 \& 10).

## Hindi

कक्षा - 11 ावषय -हलन्दा

1. मुंशी प्रेमचंद पर परियोजना कार्य तैयार कीजिए। परियोजना कार्य करते समय निम्नलिखित बिंदुओ को अपनाया जा सकता है।

- प्रमाण पत्र
- आभार ज्ञापन
- विषय सूची
- सुश्री प्रेमचंद जीवन परिचय
- शिक्ता
- साहित्यिक जीवन
- शादी
- प्रेमचंड का दूसरा विवाह
- आर्थक विपत्तियों
- ईश्वर के प्रति आस्था
- व्यक्तित्व
- कृतियों
- भाषा / शैली
- पुरस्कार
- मृत्यु
- अध्ययन का परिणाम
- स्त्रोत
- अध्यापक टिप्पणी

2. (यूनिट-1) परीक्षा के लिए ईंदगाह, दोपहर का भोजन, अरे इन दोहुन राह न पाई पाठ के प्रश्न-उत्तर याद करें।
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