

St. Thomas School
HOLIDAY HOMEWORK
CLASS:XI
SUB: ENGLISH CORE

1. Pick one story or poem from your syllabus. Identify the values it teaches (honesty, courage, kindness, bond etc..)

Create a **POSTER** showing a connection between the plot of the story and values. (A4 sheet)

2. Read the given letter of Shashi Tharoor and write & learn the meaning of underlined words in your English Register.

3. Revise the syllabus done in the class.

Shashi Tharoor's letter to PM Modi

Dear Prime Minister,

In reciprocation to your recent epistolary overture, I am impelled, indeed epistemologically coerced into articulating my gratitude via a prolix palimpsest of sesquipedalian syntax, lest a pedestrian expression be deemed a lexical misdemeanour unbecoming of this magnanimous interlude.

The conspicuous concatenation of your executive discretion with my rhetorical propensities precipitates an ontological juxtaposition that, while perplexing to the cynically disenchanted, is axiomatic to the Platonic ideal of governance transcending ideological parallax.

Your solicitation of my dialectical faculties to represent India's post-kinetic strategic imperatives on multilateral podiums is not merely an act of bipartisan politesse. It's a semiotic calibration in favour of para-institutional intellect, wrapped in the velveteen glove of realpolitik.

Let me, therefore, not insult the grandeur of your gesture by responding with jejune platitudes. Rather, I proffer this peroration: That I shall, with alacritous gravitas and polyglottic finesse, transmute India's heterogenous anxieties into diplomatically palatable phonemes, calibrated for variegated epistemic receptors across hemispheric constellations.

Should this venture culminate in epistemological transcendence or geopolitical vertigo, I remain, as ever, your **loquacious interlocutor** in the theatre of national humility.

Dr. Shashi Tharoor

SUB: PHYSICS

1. Eight experiments to be written in Practical File. (as per instructions given in class)

- 1) Use of Vernier Callipers to (i) measure diameter of a small spherical/cylindrical body (ii) measure the internal diameter and depth of a given cylindrical object like beaker/glass/calorimeter and hence to calculate its volume
- 2) Use of screw gauge to (a) measure diameter of a given wire (b) determine volume of an irregular lamina
- 3) Measurement of the weight of a given body (a wooden block) using the parallelogram law of vector addition
- 4) Using a Simple Pendulum plot $L - T$ and $L - T^2$ graphs, hence find the effective length of second's pendulum using appropriate graph
- 5) To study the relation between force of limiting friction and normal reaction and to find the coefficient of friction between surface of a moving block and that of a horizontal surface
- 6) To find the force constant **by** plotting a graph between load and extension.
- 7) To determine the coefficient of viscosity of a given liquid by measuring the terminal velocity of a spherical body
- 8) (i) To study the relation between frequency and length of a given wire under constant tension using a sonometer (ii) To study the relation between the length of a given wire and tension for constant frequency using a sonometer

2. Revise Ch 1: Units and Measurements for UT-1
3. Assignment (to be done in Assignment Notebook)

S n	MCQ
1	A body starts from rest and travels with uniform acceleration on a straight line. If its velocity after making a displacement of 32 m is 8 m/s, its acceleration is (a) 1 m/s ² (b) 2 m/s ² (c) 3 m/s ² (d) 4 m/s ²
2	A body starts from rest and travels for t second with uniform acceleration of 2 m/s ² . If the displacement made by it is 16 m, the time of travel t is (a) 4 (b) 3 s (c) 6 s (d) 8 s
3	The resultant of two forces 10 N and 15 N acting along + x and - x-axes respectively, is

	(a) 25 N along + x-axis (b) 25 N along - x-axis (c) 5 N along + x-axis (d) 5 N along - x-axis
	Assertion and Reason
	<p>Directions: The questions consist of two statements one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.</p> <p>(a) If both A and R are true and R is the correct explanation of A (b) If both A and R are true but R is NOT the correct explanation of A (c) If A is true but R is false (d) If A is false and R is also false</p>
4	<p>A : When the velocity of an object is zero at an instant, the acceleration need not to be zero at that instant.</p> <p>R : In motion under gravity, the velocity of body is zero at the top-most point.</p>
5	<p>A : A body moving with decreasing speed may have increased acceleration.</p> <p>R : The speed of body decreases when acceleration of body is opposite to velocity.</p>
6	<p>A : If speed of a particle is never zero then it may have zero average speed.</p> <p>R : The average speed of a moving object in a closed path is zero.</p>
7	<p>A : The area under acceleration-time graph is equal to velocity of object.</p> <p>R : For an object moving with constant acceleration position-time graph is a straight line.</p>
8	<p>A : The motion of body projected under the effect of gravity without a resistance is uniformly accelerated motion.</p> <p>R : If a body is projected upwards or downwards, then the direction of acceleration is downward.</p>
	Short Answer Question
9	<p>The position of an object moving along x-axis is given by $x = at + bt^2$ where $a = 8.5 \text{ m}$, 2.5 m s^{-2} and t is measured in seconds. What is its velocity at $t=0 \text{ s}$ and $t=2.0 \text{ s}$. What is the average velocity between $t=2.0 \text{ s}$ and $t=4.0 \text{ s}$?</p>

10	A body covers a distance of 4 m in 3rd second and 12 m in 5th second. If the motion is uniformly accelerated, how far will it travel in the next 3 seconds?
11	A car moving along a straight highway with speed of 126 km /h is brought to a stop within a distance of 200 m. What is the retardation of the car (assumed uniform), and how long does it take for the car to stop?
12	A ball is projected up with the velocity of 20 m/s from 105 m high tower. Find the following a) Time to reach max height. b) Maximum height attained c) Time when particle is at level of top of tower.
13	Given two vectors, $\mathbf{A} = 2\mathbf{i} - 3\mathbf{j} + 7\mathbf{k}$ and $\mathbf{B} = 5\mathbf{i} + \mathbf{j} + 2\mathbf{k}$, find: (a) Magnitude of \mathbf{A} ; (b) Magnitude of \mathbf{B} ; (c) $\mathbf{A} + \mathbf{B}$; (d) $\mathbf{A} - \mathbf{B}$; (e) unit vector of \mathbf{A} (f) unit vector of \mathbf{B} pointing in the direction of \mathbf{B} .
14	Find a vector of magnitude 5 units which is parallel to the vector $2\mathbf{i} - \mathbf{j}$.
15	For $\mathbf{v}_1 = 2\mathbf{i} - 3\mathbf{j}$ and $\mathbf{v}_2 = -6\mathbf{i} + 5\mathbf{j}$, determine the magnitude and direction of $\mathbf{v}_1 + \mathbf{v}_2$. (Ans $2\sqrt{5}$, $\theta = \tan^{-1} (-\frac{1}{2})$ with x -axis)

SUB: CHEMISTRY

VERY SHORT ANSWER QUESTIONS:

- Round off each of the following to three significant figures.
(i) 6.625×10^{-34} (ii) 5.635 (iii) 6.326 (iv) 8.314×10^7
- Can different compounds have same empirical formula? Explain.
- Convert into mole:
(i) 12 g of oxygen gas (ii) 20 g of water (iii) 22g of carbon dioxide
- Name a sub- atomic particle which will not show deflection from path on passing through an electric field.
- From what observations do you derive the following inferences?
(i) The most of the space inside the atom is empty.
(ii) The volume of the nucleus is very small.
(iii) Anode rays consist of positively charged particles.

SHORT ANSWER QUESTIONS.

- The energy of a photon is 3.98×10^{-21} J. What is its wavelength in nm?
- Out of electron and proton which one will have higher velocity to produce matter waves of the same wavelength? Explain.
- Give possible sets of quantum numbers for an electron in :
(i) second energy level (ii) 2s- orbital
- The density of 3 m solution of NaOH is 1.11 gmL^{-1} . Calculate the M of the solution.
- 45.4 L of N_2 reacted with 22.7 L of O_2 and 45.4 L of N_2O was formed. Which law is being obeyed in this reaction? Write the statement of the law.

LONG ANSWER QUESTIONS:

1. An element forms two oxides containing respectively 40% and 50% by mass of the element. Show that the data illustrates the law of multiple proportions.
2. (i) What is photoelectric effect? How wave theory could not explain this effect?
(ii) Explain this effect on the basis of Planck's quantum theory.
3. Write the significance of all the quantum numbers.

NUMERICALS:

1. A tennis ball weighing 2.5 g has a speed of 20m/s. If the speed can be measured within accuracy of 1%, calculate the uncertainty in speed and position.
 2. Calculate the frequency and wave number of the radiation emitted when an electron in hydrogen atom returns from fifth energy level to second energy level.
 3. How much volume of 10 M HCl should be diluted with water to produce 2 L of 5 M HCl?
 4. 4 g of NaOH is dissolved in 90 g of water. Calculate the mole fraction of NaOH and also the molarity and molality of the solution if the density of the solution is 1 gmL^{-1}
 5. A compound has the following composition: Mg = 9.76%, S= 13.01 %, O= 26.01%, H_2O = 51.22% . What is the empirical formula? [Mg= 24, S= 32, O= 16]
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SUB: MATHEMATICS

General Instructions:

- (i) This H.H.W. is divided in two parts
- (ii) Part I- Assignment
- (iii) Part II- Make a formula booklet and mind map of chapters covered.

Note: It will be added in internal assessment.

PART-I

ASSIGNMENT

1	Describe each of the following sets in Roster form (i) $\{x : x \text{ is a positive integer and a divisor of } 18\}$ (ii) $\{x : x \in \mathbb{Z} \text{ and } x \leq 1\}$ (iii) $\{x : x \text{ is a letter of the word 'MATHEMATICS'}\}$ (iv) $\{x : x = \frac{n}{n^2+1} \text{ and } 1 \leq n \leq 3, \text{ where } n \in \mathbb{N}\}$
2	Describe the following sets in set-builder form: (i) $A = \{1, 1/2, 1/3, 1/4, 1/5, \dots\}$ (ii) $B = \{0, 5, 10, 15, 20, \dots\}$ (iii) $C = \{1, 4, 9, 16, \dots, 100\}$ (iv) $D = \{\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}\}$
3	Which of the following sets are equal? (i) $A = \{1, 2, 3\}$ (ii) $B = \{x \in \mathbb{R}, x^2 - 2x + 1 = 0\}$ (iii) $C = \{1, 2, 2, 3\}$ (iv) $D = \{x \in \mathbb{R}, x^3 - 6x^2 + 11x - 6 = 0\}$
4	Write the following subsets of \mathbb{R} as intervals: (i) $\{x : x \in \mathbb{R}, -1 \leq x \leq 6\}$ (ii) $\{x : x \in \mathbb{R}, -2 < x \leq 3\}$ (iii) $\{x : x \in \mathbb{R}, 1 < x < 2\}$ (iv) $\{x : x \in \mathbb{R}, x \leq -7\}$ (v) $\{x : x \in \mathbb{R}, x \geq 0\}$ (vi) $\{x : x \in \mathbb{R}, 0 \leq x < 1\}$
5	Write the following intervals in the set-builder form:

	(i) $(-5, 0)$ $(-3, \infty)$	(ii) $[1, 10]$	(iii) $(3, 11]$	(iv) $[-10, 4)$	(v)
6	Write down all possible subsets of each of the following sets: (i) $\{p\}$ (ii) $\{p, q, r\}$ (iii) $\{1, \{2\}, 3\}$				
7	Write the power set of $A = \{\alpha, \beta, \gamma\}$				
8	Let $P = \{a, e, i, o, u\}$ and $Q = \{c, d, e\}$. Find the number of (i) elements in the power set of P (ii) proper subsets of set Q.				
9	Draw appropriate Venn diagram for each of the following: (i) $A \cup B$ (ii) $(A \cup B)'$ (iii) $A \cap B$ (iv) A' (v) $A - B$ (vi) $(A \cap B)'$				
10	Let $P = \{1, 3, 5, 7\}$ $Q = \{3, 7, 9, 11\}$ $R = \{1, 5, 8, 11\}$, then verify the following. (i) $P \cup Q = Q \cup P$ (ii) $(P \cup Q) \cup R = P \cup (Q \cup R)$ (iii) $P \cap Q = Q \cap P$ (iv) $(P \cap Q) \cap R = P \cap (Q \cap R)$ (v) $P \cup (Q \cap R) = (P \cup Q) \cap (P \cup R)$ (vi) $P \cap (Q \cup R) = (P \cap Q) \cup (P \cap R)$				
11	Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $A = \{1, 2, 4, 6, 8, 10\}$, $B = \{1, 3, 5, 7, 8, 9\}$ Verify De Morgan's law.				
12	If $A = \{a, b, c\}$ and $B = \{a, c\}$, then determine (i) $A \times B$ (ii) $B \times C$ (c) $B \times B$ (iv) $A \times A$				
13	In each of the following cases, find a and b. (i) $2a + b, a - b = (8, 3)$ (ii) $\{a/4, a - 2b\} = (0, 6 + b)$				
14	Given $R = \{(x, y) : x, y \in W, x^2 + y^2 = 36\}$. Find the domain and range of R				
15	Find the domain and range of the following functions: (i) $\sqrt{x^2 - 9}$ (ii) $\frac{1}{x^2 + 2x + 1}$ (iii) $ x - 5 $ (iv) $\frac{1}{\sqrt{x-5}}$				
16	If f and g are real functions defined by $f(x) = x^2 + 7$ and $g(x) = 3x + 5$, find each of the following (i) $f(3) + g(-5)$ (ii) $f(1/2) \times g(14)$				
17	Find the values of x for which the functions $f(x) = 3x^2 - 1$ and $g(x) = 3 + x$ are equal.				
18	If $f(x) = ax + b$, where a and b are integers, $f(-1) = -5$ and $f(3) = 3$, Find a and b.				
19	Sketch the plane (i) $x=1$ (ii) $y=2$ (iii) $z=3$				
20	Let L, M, N be the feet of the perpendiculars drawn from a point $P(5, 6, 7)$ on the x, y and z-axes respectively. Find the coordinates of L, M and N.				
21	Find the coordinates of a point equidistant from the four points $O(0, 0, 0)$, $A(a, 0, 0)$, $B(0, b, 0)$, $C(0, 0, c)$.				
22	Show that the points A $(5, -1, 1)$, B $(7, -4, 7)$, C $(1 - 6, 10)$ and D $(-1, -3, 4)$ are the vertices of a rhombus.				
23	Show that the point A $(1, -1, 3)$, B $(2, -4, 5)$ and $(5, -13, 11)$ are collinear.				
24	Name the octant in which each of the following points lies. (i) $(3, 2, 3)$ (ii) $(5, -5, 5)$ (iii) $(1, -2, -3)$ (iv) $(1, 2, -1)$ (v) $(-4, 2, 5)$ (vi) $(-3, -1, 6)$ (vii) $(8, -7, -4)$ (viii) $(-7, 8, -9)$				
25	Solve the inequality, $3x - 5 < x + 7$, when (i) x is a natural number (ii) x is a whole number (iii) x is an integer (iv) x is a real number				
26	Solve the inequality when x is a real number (i) $1 \leq x - 2 \leq 3$ (ii) $ x + 1 + x > 3$.				
27	Solve the following system of inequalities: (i) $\frac{x}{2x+1} \geq \frac{1}{4}$; $\frac{6x}{4x-1} < \frac{1}{2}$ (ii) $-5 \leq \frac{2-3x}{4} \leq 9$ (iii) $\frac{x-2}{x+5} > 2$ (iv) $\frac{4}{x+1} \leq 3 \leq \frac{6}{x+1}$ ($x > 0$) (v) $4x + 3 \geq 2x + 17$, $3x - 5 < -2$.				
28	Solve the inequality and show the graph of the solution on the number line $5(2x-7) - 3(2x+3) \leq 0$, $2x+9 \leq 6x+47$				
29	The water acidity in a pool is considered normal when the average pH reading of three daily measurements is between 8.2 and 8.5. If the first two pH readings are 8.48 and 8.35, find the range of pH value for the third reading that will result in the acidity level being normal.				

- | | |
|----|--|
| 30 | A solution of 9% acid is to be diluted by adding a 3% acid solution to it. The resulting mixture is to be more than 5% but less than 7% acid. If there is 460 litres of the 9% solution, how many litres of 3% solution will have to be added? |
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PART-II

Make a formulae booklet and Mind Map (A4 Sheets) of following chapters:

- 1- *Sets*
- 2- *Relations and Functions*
- 3- *Linear Inequalities*
- 4- *Introduction to Three-dimensional Geometry*

SUB: BIOLOGY

1. 5 practicals to be written in the file.
2. One Assignment to be done in the notebook

Assignment

1. Define genome & cell cycle. What are the 2 basic phases of cell cycle?
2. What is karyokinesis and cytokinesis? What are the three phases of interphase? Explain.
3. What is the significance of G₀ stage of cell cycle?
4. How does cytokinesis in plant cell differ from that in animal cell?
5. Telophase is said to be the reverse of prophase. Describe the statement.
6. The best stage at which the total number of chromosomes can be counted in any species is _____
7. Under uncontrolled cell division, what is the pathological condition that occurs?
8. Which is the cell that is captured in the diplotene phase for months and years? How does it complete its cell cycle?
9. Explain: a) Synaptonemal complex b) Metaphase plate
10. What is the role of centrioles apart from spindle formation?
11. Assertion- The cisternae in Golgi complex have cis face and trans face.

Reason- The cis face is also called forming face and trans face is also called maturing face.

12. Assertion- Peroxisomes are involved in photorespiration of the plant cells and help in the lipid metabolism of animal cells.

Reason- They are the cell's garbage disposal system

COMPUTER SCIENCE

Q1. Prepare a presentation in SWAY/CANVA/POWEPOINT on any one of the topics listed below

1. **Cyber Safety**
2. **Network Security Threats**
3. **Cyber Crimes**
4. **E-Waste Management**

Q2. Visit the website "Code.org" Complete at least one online courses available on the website. Submit the completion certificate of the same

**Q3- Complete the worksheets of Ch-1- Computer System and Organization
Ch-3-Getting Started with Python and Ch-4-Python programming
Fundamentals(Assignment uploaded on Edunext)**

Q4-Complete the practical File (Questions uploaded on Edunext)

SUB: ECONOMICS

(“TIME MOVES SLOWLY, BUT PASSES QUICKLY”)

	PART I
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 and A-4 sheets. Details regarding project given below.

PART II STATISTICS ASSIGNMENT

L-1, 2, 3

Q.NO.	QUESTION
1.	Classify the following activities into economic and non-economic activities and give reason also. A. Shiva has given his unwanted toys to those, less fortunate. B. Mr.Sohan runs a shop of vegetables nearby a residential society. C. Dr. Sudha is a well known for her treatment. Daily she attends 100 patients in Govt. Hospital. D. Few house wives in ‘Amrit Dhara Society’ pay monthly fees of 10 poor students in a Govt. school .
2.	Identify the following statements as Statistics in ‘Singular sense and Plural sense’. A. Statistical study of collection of data. B. Statistics are affected to a marked extent by multiplicity of causes. C. Statistics include presentation of data. D. Statistics are collected in a systematic manner.
3.	Which characteristics of ‘Statistics’ as ‘Plural sense’ possess in the given examples. Identify and explain them. A. 25% rise in prices may have been due to several causes, like reduction in supply, increase in demand, shortage of power, rise in wages, rise in taxes, etc. B. Production of wheat in India has increased by 20% between 2021-2023.
4.	“Comparison is one of the main functions of Statistics as the absolute figures convey a less concrete meaning”. Agree or disagree explain.
5.	Identify the suitable method of collecting primary data for the following cases :

	<ol style="list-style-type: none"> 1. When the data is to be collected in shorter duration. 2. When adequate finance and trained enumerators are available. 3. When respondents are literate and are likely to cooperate with investigation. 4. When regular and continuous information is required. 5. When investigation needs expert opinion. 6. When nature of enquiry is confidential. 										
6.	<p>Out of 'Census method' and sampling method, which one is suitable in the following cases:</p> <ol style="list-style-type: none"> 1. Relatively less money, time and labour is required. 2. Results are quite reliable and accurate. 3. Limited enquiry is conducted . 4. The only error that may arise is error of bias. 										
7.	<p>Match the following:</p> <table border="1"> <thead> <tr> <th>Characteristics</th><th>Method</th></tr> </thead> <tbody> <tr> <td>Certain items numbers of items are taken from each group.</td><td>Cluster sampling</td></tr> <tr> <td>Every nth item is selected as sample</td><td>Stratified random sampling</td></tr> <tr> <td>Total population is divided in into some recognizable sub- divisions.</td><td>Multistage sampling.</td></tr> <tr> <td>Sample is carried out in multiple stages</td><td>Systematic sampling</td></tr> </tbody> </table>	Characteristics	Method	Certain items numbers of items are taken from each group.	Cluster sampling	Every nth item is selected as sample	Stratified random sampling	Total population is divided in into some recognizable sub- divisions.	Multistage sampling.	Sample is carried out in multiple stages	Systematic sampling
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Total population is divided in into some recognizable sub- divisions.	Multistage sampling.										
Sample is carried out in multiple stages	Systematic sampling										
8.	<p>In a village of 400 farmers , Sohan had conducted a study to find out the cropping pattern . out of the 100 farmers surveyed, 50% grew only wheat.</p> <p>On the basis if above given information , answer the following questions:</p> <ol style="list-style-type: none"> 1. Sohan has collected ----- data (primary or secondary) 2. What is the population? 3. Which method of survey is used by Sohan ? 4. How many (absolute number) farmers grew only wheat? 5. How many farmers (absolute number) grew crops other than wheat? 										
9.	<p>Give two - two examples of the following published sources of secondary data:</p> <ol style="list-style-type: none"> A. Central and state Govt. B. Publications of trade associations C. International publications 										

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 10 respondents.
5.	<p>Answer the following questions regarding ‘DATA COLLECTION PROJECT’.</p> <p>a. What is the source of data, you have collected (Internal sources or external sources) ?</p> <p>b. Which type of data is collected by you (Primary or secondary)?</p> <p>c. Which method of ‘collecting primary data’ is used by you?</p> <p>d. Which method of survey is used by you (census survey or sampling survey) ?</p> <p>d.1. If sampling method is used than which type of sampling (Random Sampling or Restricted random sampling or Non- random sampling)?</p> <p>d.2. which specific method is used under above mentioned three main heads, discuss.</p>
6.	<p>Keep following pages in a folder.</p> <p>a. Specimen of questionnaire .</p> <p>b. 10 questionnaires with responses of 10 respondents.</p> <p>c. Answers of question no. 5</p>

SUB : BUSINESS STUDIES

Make a collage depicting classification of family members in Economics activity and Non-economic activity

SUB: ACCOUNTANCY

Students must note down the accounting terms often used in their day to day activities and also they should have conversation with their parents about their work or profession and try to find out the practical use of the Accounting terms like- Salary, entity and also about the terms like sale, purchase which they use in their routine life. After noting these points they must relate and should be able to explain in class. Atleast 20 terms they should write and explain when and where is has been used.

Revise the syllabus taught till now and complete your notebook.

Q1. ## APPLIED MATHEMATICS PROJECT ON LOGARITHMS

PROJECT TITLE: Exploring the World of Logarithms – From Basics to Real-Life Applications

PROJECT QUESTION: "How do logarithms simplify complex calculations and where do we see their application in real life?"

 Value Points to Include in the Project:

1. *Definition of a Logarithm*

2. *Relation of Logarithmic Form to Exponential Form*

* Include examples to illustrate the connection

3. *Laws of Logarithms*

4. *Application of Logarithmic Laws through Examples*

5. *Standard Form of a Number*

6. *Characteristic and Mantissa*

* Definition and examples

7. *Use of Logarithms in Mathematical Calculations*

8. *Real-Life Applications of Logarithms*

Mention areas like science, engineering, finance, etc.

9. *Two Real-Life Examples Showing the Use of Logarithms*

- Clearly explain each example

Q2. Do 50 questions each in a separate thin register from the chapters completed in class i.e. SETS and RELATIONS, SEQUENCES and SERIES, INDICES AND LOGARITHMS

Q3. Revise the done chapters for the first unit test.

SUB: PSYCHOLOGY

Do Question answer(NCERT) and write important notes of the chapter

1. Ch 6- Learning
2. Ch 7- Human Memory
3. Practical of Verbal Learning

SUB: PHYSICAL EDUCATION

Write down SAI KHELO FITNESS TEST in detail in your physical education lab manual

SUB: PAINTING

Draw these drawings in your A3 size folder

Topics-

Composition:-

•Market scene

•Picnic

•Any Cultural Celebration

•Folk Art (except Madhubani and warli art)

•Any game of your choice

•Fictional Drawing

SUB: HISTORY

1. Students are supposed to make a project file on the following topic:

"The Roman Empire: Expansion, Governance and Culture"

2. It should include decorated file with Cover Page, certificate, Acknowledgement, Table of contents, Introduction, Conclusion and Bibliography.

SUB: GEOGRAPHY

Complete the Disaster Management project , prepare the model of latitude and longitudes, Physical Division of India and learn the chapters taught

SUB: POLITICAL SCIENCE

➤ **PROJECT WORK: (20 marks)**

1. Every student has to compulsorily undertake one project on the topics from the syllabus of session 2025-26. The Project Report should be **handwritten** by the students themselves on A3/4 size sheets.

PATTERN OF THE PROJECT FILE:

1. **Cover page** - School name, Project title, Session, Subject. At the bottom of the title page - write your Name (in CAPITAL) and Class (in two separate rows/Right align) followed by Roll No.
2. **First page** - Project Title, subject, session, name of the student, class/ section
3. **Certificate of Authenticity**
4. **Acknowledgment**
5. **Index** - With page numbers
6. **Introduction** of the Topic / Purpose and aim of the project
7. **Content:**
 - Introduction
 - Identifying causes, events, consequences and/or remedies.
 - Various stakeholders and effect on each of them.
 - Short-term and long-term implications of strategies suggested in the course of research.
 - Check list includes validity, reliability, appropriateness and relevance of data used for research work.
 - Present material/ data/ statistics with related pictures, pie charts, bar graphs, cartoons, slogans, maps etc. **on the left side of the file (even # pages)** to make a quality project.
 - Report on primary source (with evidence)
 - **Conclusion**- Draw a relevant conclusion by mentioning the learning outcome and suggestions (if any).
8. **Bibliography**- Mention name of the book, newspaper, magazine, website, author, publisher

Suggested Topics:

1. Making of the Constitution.
2. Elections in India.
3. Working of the Indian Judiciary System.
4. Social Justice: Are ethics followed in Indian Politics
5. Human Rights Act and its gratification in India.
6. Political impact on Indian Legislation.
7. Article 368 and Constitutional Amendments
8. Fundamental Rights vs. Directive Principles
9. Federalism in India: Centre-State Relations
10. Election Commission of India: Powers and Challenges
11. Citizenship and Globalization: Changing Meanings in the 21st Century
12. Democracy: Forms, Merits and Challenges in India
13. Political Ideologies: Liberalism, Socialism and Communism
14. Liberty vs. Equality: Tensions and Balances
15. Freedom of Speech: Limits and Responsibilities

➤ **READING TASK:**

*Read the newspaper daily.

*Read Article-12 to 35 of the Indian Constitution.

➤ **REVISION**

Learn and revise UT-1 syllabus.

L-1, 2, 3

विषय हिन्दी -2025-26

1. हिन्दी लेखक प्रेमचंद के जीवन परिचय एवं साहित्यिक उपलब्धियों पर परियोजना कार्य करें ।
2. “दोपहर का भोजन” कहानी के आधार पर कल्पना कीजिए कि आप लेखक हैं और आपने सिद्धेश्वरी की आर्थिक दशा देखकर एक सामाजिक संस्था को पत्र लिखना है। उस पत्र में परिवार की आर्थिक समस्याओं का जिक्र करते हुए सहायता का अनुरोध करें ।

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