

HOLIDAY HOME WORK

class - 10th

SCIENCE

- Use a reference book and solve the conceptual, numerical and diagrammatic questions (10 in each case) - 30 in total.
- Complete chapter and Q&A (NCERT) up to the taught topic.

CHEMISTRY

- ① In practical notebook, write practical related to chapter 1 - Types of chemical reactions.
- ② Write all chemical equations given in chapter 1, ^(NCERT) - 5 times each in HW notebook
- ③ Do questions given in activity, intext questions and exercise of chapter 1 (NCERT textbook) in H.W. notebook.
- ④ Make a list of 10 strong acids & bases and 10 weak acids and bases with formulae.

BIOLOGY

- ① Learn and write - 1. Intext Q/A Page No-95, 101, 105
2. Exercise Q/N- 5, 6, 7, 8, 9, 10 of NCERT BOOK.
- ② Write the following activities in stick file -
 - (a) To show that chlorophyll is essential for photosynthesis.
 - (b) To show that CO_2 is essential for photosynthesis
 - (c) To show the action of saliva on starch
 - (d) To show CO_2 is evolved during exhalation
 - (e) To show that CO_2 is released during fermentation.
- ③ Prepare a chart on aerobic and anaerobic respiration.
- ④ Make 25 MCQs from circulatory system and excretory system
- ⑤ Make a model of digestive system / Respiratory system using clay and cardboard.

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Prepare a detailed project on any one of the foll. topics.

Project 1:- Consumer Right

- Different types of consumers rights
- COPRA
- Role of Courts in implementation of consumer rights
- Consumer Awareness
- Case study.

Project 2:- Social Issues
students may select any one topic

- Gender issue
- Caste issue
- Linguistic diversity
- Regionalism
- Economic disparities
- Religious diversity
- Environmental issue

Project 3:- Sustainable Development

- Meaning of Sustainable development
- Issue of Sustainable development
- Importance of Sustainable development
- Reports/Meetings/Summit related to Sustainable dev.
- Current status of development.

II. Prepare 25 MCQ from Chapter 1 of
History, Civics, Economics, Geography.

- Sanskrit
1. पाठ - 1 के सभी श्लोकों के अर्थ लिखें।
 2. पाठित पाठों की आवृत्ति करें।
 3. शब्दरूप एवं धातु रूप लिखकर अभ्यास करें।

Hindi

Holiday Home work

Class - 10

ENGLISH

A Triumph of Surgery

- 1) What evidence do you get from the text about Tricki's affluent living?
- 2) "Over-pampering is not only bad for human but also for animals". Explain this statement in the light of the story "A Triumph of Surgery".

The Thief's Story

- 1) "Everyone must have a chance to reform". How did Anil worked upon these values and succeeded?
 - 2) Why did Hari Singh decide to return the stolen money? What light does it throw on his character?
- A letter to God

- 1) Bring out Lencho's immense faith in God.
- 2) ~~up wish I had the faith of the man who wrote this letter.~~ In
- 2) As the postmaster, write how you felt when Lencho accused you and your men of stealing mail. Comment.

Dust of Snow + Fire + Ice

- 1) Simple moment proves to be very significant and saves rest of the day of poet from being wasted. Explain on the basis of the poem "Dust of Snow".
- 2) Today's world is conflict ridden. People fight various issues and there is no peace in the world. Explain based on your reading of the poem 'Fire and Ice'.

Nelson Mandela - Long walk to freedom

- 1) How does Mandela describe the systems of the government in his country
 - a) in the first decade and
 - b) in the final decade of the 20th?
- 2) Nelson Mandela was the hero of South Africa's freedom movement. Comment.

ग्रीष्मावकाश गृह कार्य

2023-2024

वर्ग - दशम

- i> पाठ 'बड़े भाई साहब', 'साखी' एवं 'हरिहर काका' से 20-20 बहुवैकल्पिक प्रश्नोंतर लिखकर याद करें।
- ii> 'ई- कचरा' एवं 'भ्रष्टाचार' विषय पर 120 शब्दों में अनुच्छेद लिखें।
- iii> 50 मुहावरों का अर्थ लिखते हुए उससे वाक्य बनाएँ।
- iv> अपनी कल्पना के सहारे किसी विषय पर एक लघु कथा लिखें।

CLASS – X

PART – A (EMPLOYABILITY SKILLS)

UNIT – I (COMMUNICATION SKILLS)

1. DO ALL THE CHECKPOINTS AND SOLVED ASSIGNMENTS WITH GLOSSARY IN C.W. COPY OF SESSION 1 TO 7
2. DO ALL THE ASSIGNMENT IN H.W. COPY OF SESSION 1 TO 7

PART- B (VOCATIONAL SKILLS)

UNIT- I (DIGITAL DOCUMENTATION)

1. DO ALL THE CHECKPOINTS AND SOLVED ASSIGNMENTS WITH GLOSSARY IN C.W. COPY OF SESSION 1
2. DO ALL THE ASSIGNMENT IN H.W. COPY OF SESSION 1

DAV PUBLIC SCHOOL BSEB COLONY PATNA-23
SUMMER VACATION ASSIGNMENT:2023-24

Std. X

Maths Activity :-

1. To find the number of tangents from a point to the circle.
2. To obtain the formula for area of a circle experimentally.(By paper cutting method)
3. To verify that the sum of first n natural numbers is $n(n+1)/2$ by graphical method.
4. To find the formula for the volume of sphere.
5. To verify basic proportionality theorem.
6. To verify Pythagoras' theorem

(To be prepare in practical notebook)

Project :-

1. Shreedharacharya life history and his contribution in the field of Maths,
2. Write & Learn all the formulae and concept of Real Numbers, Polynomial and Trigonometry taught in the class room.

(To be prepared in stick file)

Std. IX

Maths Activity :-

01. To construct \sqrt{x} on number line and explain its method.
02. To prove if the sum of a pair of opposite angles of a quadrilateral is 180 degree, then the quadrilateral is cyclic
03. Define data, explain the methods for calculating mean, median and mode of ungrouped data and give example for each
04. State and Explain mid point theorem with example.
05. State and explain RHS property in congruence of triangles.

(To be prepare in practical notebook)

Project :-

1. Srinivasa Ramanujan life history and his contribution in the field of Maths.
2. Write & Learn all the formulae and concept of Real Numbers, Polynomial and factorization taught in the class room.

(To be prepared in stick file)

Holiday Homework

Class: X

Subject: Mathematics

- Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.
(i) $5x^2 - 29x + 20$ (ii) $x^2 - 5x$
- Form the quadratic polynomials whose zeroes are (i) $3 \pm \sqrt{2}$ (ii) $-\sqrt{2}$ and $\sqrt{2}$
- Find all the zeroes of $x^3 + 6x^2 + 11x + 6$ if $(x+1)$ is a factor.
- Find all the zeroes of $x^3 - 10x^2 + 31x - 30$ if 2 is a zero of it.
- Find the values of 'a' and 'b', if 2 and 3 are zeroes of $x^3 + ax^2 + bx - 30$
- Divide $x^4 - 4x^3 + 8x^2 + 7x + 10$ by $(x-2)$ and verify the division algorithm.
- Find the value of 'k', if $(x-2)$ is a factor of $x^2 - kx + 10$.
- Find the value of 'm', if 2 is a zero of $3x^2 - 17x + m$.
- Find all the zeroes of $4x^4 - 20x^3 + 23x^2 + 5x - 6$ if two of its zeroes are 2 and 3.
- If α and β are the zeroes of $x^2 + 5x + 6$, find the value of $\alpha^{-1} + \beta^{-1}$.
- If $\frac{1}{2}$ and 1 are the zeroes of $2x^4 - 3x^3 - 3x^2 + 6x - 2$, find the other zeroes.
- If one of the zeroes of the polynomial $5x^2 + 13x - p$ is the reciprocal of the other, find 'p'.
- On dividing the polynomial $4x^4 - 3x^3 - 42x^2 - 55x - 17$ by the polynomial $g(x)$ the quotient is $x^2 - 3x - 5$ and the remainder is $5x + 8$. Find $g(x)$.
- Verify that 1, 2 and $\frac{1}{2}$ are zeroes of $2x^3 + x^2 - 5x + 2$. Also, verify the relationship between the zeroes and the coefficients.
- If α and β are the zeroes of the quadratic polynomial $x^2 - kx + 15$ such that $(\alpha + \beta)^2 - 2\alpha\beta = 34$, find 'k'.

Class - IX Subject - MATHS

- Solve the following sums:
 - Find the value of $34^2 - 21^2$.
 - If $a = 5 - 2\sqrt{5}$, then find a^2 .
 - Find five rational numbers between $\frac{4}{5}$ and $\frac{7}{5}$.
 - If $x = 0.28$, then find x^2 .
 - Add $5\sqrt{2} + 4\sqrt{3}$ and $7\sqrt{2} - 6\sqrt{3}$
- Represent the rational numbers on number line.
 - $\frac{3}{4}$ (b) $-\frac{8}{5}$ (c) $2\frac{1}{2}$ (d) $-\frac{7}{8}$
- Rationalise the denominators:
 - $\frac{5}{2+\sqrt{3}}$ (b) $\frac{8}{\sqrt{5}-\sqrt{6}}$ (c) $\frac{3}{\sqrt{5}}$
- If $x + y = 12$ and $xy = 32$, Find the value of $x^2 + y^2$. (Hint : use identity $(x+y)^2 = x^2 + y^2 + 2xy$ to substitute values)
- If $3x + 2y = 12$ and $xy = 6$, find the value of $9x^2 + 4y^2$. (Hint : use identity $(x+y)^2 = x^2 + y^2 + 2xy$ to substitute values)
- Write the following cubes in the expanded form:
 - $(3a + 4b)^3$
 - $(5p - 3q)^3$
- Represent the Number System with the help of a Flow Chart and write examples also.
- Learn and write algebraic identities.
- Make a list of law of exponents.
- Factorise :
 - $x^2 - 4x - 21$ (b) $x^2 - 19x + 78$ (c) $x^2 + 9x + 18$

Note: Do practice of all the sums in the given worksheets.

Date of submission :-

	Class IX	Class X
Note Book	22/06/2023	22/06/2023
Activity	26/06/2023	26/06/2023
Project	26/06/2023	26/06/2023