



R.M PUBLIC SCHOOL

CBSE AFFILIATION NO. 730072

SESSION -2022-23

Class -9TH

Winter Vacation Homework

Dear Students,

Vacation is the best and the most fruitful time for learning and nurturing creativity. Keeping this objective in mind, we have planned diverse and exciting activities that will enhance your knowledge and boost your creativity.

General instructions

Bring holiday homework in a beautiful folder with an eco friendly cover .

Parents are requested to only guide their children while doing the assignment.

Originality of the work will be appreciated.

Subject – English

Revise the syllabus of T-1 & T-2 exam(done till now) and also solve following worksheet on separate notebook.

WORKSHEET

1. Revise the chapters If I Were You & A house is not a home. Write down the summary of these chapters on your English notebook in your own words.
2. As you are interested in getting the coaching for IELTS to enable you to go to Australia for higher studies, you decide to write a letter to the Director East -

West Imigrations consultancy services for more details. Write the letter signing yourself as Ramesh/simmi of 131, model Town, Panipat.

3. The worst form of government in the present scenario seems to be democracy run by selfish leaders ruling illiterate, blind disciples in bulldozing majority. Examine the argument in a paragraph.

Subject – Hindi

Revise the syllabus of T-1 & T-2 exam (done till now) and also solve following worksheet on separate notebook.

Worksheet

- प्रश्न १. 'हरिवंशराय बच्चन द्वारा लिखित कविता 'अग्निपथ' में मनुष्य का जीवन मुसीबतों से भरा हुआ है। यदि आपके जीवन में कभी संघर्ष आता है तो आप उस संघर्ष भरे जीवन का सामना कैसे करेंगे? अपने संघर्ष को 80-100 शब्दों में लिखिए।
- प्रश्न २. चंद्रशेखर वेंकटरामन का चित्र, उनके शोध कार्यों का चित्र और उनकी उपलब्धियों पर प्रस्तुतिकरण तैयार करें।
- प्रश्न ३. स्वरचित कविता 80-100 शब्दों में लिखिए।

Subject- Maths

Revise the syllabus of T-1 & T-2 exam (done till now) and also solve following worksheet on separate notebook.

Activity based question:-

Make a model of:-

- | | |
|-------------|------------------|
| 1) Cone | Roll no- 1 to 10 |
| 2) Cylinder | 11 to 20 |
| 3) Sphere | 21 onwards |

WORKSHEET

- Q1:-Factorize:- $9x^2+24xy+16y^2$.
- Q2:-Express 0.001001001.... in the form of p/q.
- Q3:-Rationalise the denominator of $1/\sqrt{5}+\sqrt{6}-\sqrt{2}$.
- Q4. State and prove Mid point theorem and it's converse.

Q5:-Show that the diagonals of a quadrilateral are equal and bisect each other at right angles then it is a square.

Q6:-Prove that the angle subtended by an arc of the circle at the centre is double the angle subtended by it at any point on the remaining part of the circle.

Q7:-A conical pit of top diameter 3.5 m is 12m deep . What is its capacity in kilolitres?

Q8:-A cone of slant height 25cm has a curved surface area 550cm^2 . Find it's height.

Q9:- Find the curved surface area and total surface area of a hemisphere of radius 7cm.

Q10:-In a parallelogram measure of adjacent sides are 34 cm and 20cm. One of its diagonals is 42 cm. Find the area of the parallelogram.

Q11:-Prove that the medians of an equilateral triangle are equal.

Q12:-Expand:- i) $(2x+5y)^3$. ii) $(-a+2b)^3$

Subject - Social Studies

- 1) Write any four ways to control water pollution.**
- 2) Revise Term 1 and Term 2 syllabus. (done till now)**
- 3) Solve the following worksheets on separate Notebooks**

WORKSHEET

***Draw a cartoon about the model code of conduct for the guidance of political parties and candidates during elections.**

***Describe global poverty trends.**

***Why were there revolutionary disturbances in Russia in 1905? What were the demands of revolutionaries?**

***What factors affecting the climate of India?**

***Which capital would you consider the best land, labour, physical capital and human capital. Why?**

***Write a poem or paragraph showing the importance of wildlife.**

***Draw and explain the process 'a day in the life of the Lok sabha'.**

***On which day was Paris on alarm?**

***Why is the period from 1793 to 1794 referred to as reign of terror?**

***Are all the fundamental rights only for adults? If not than Which of these rights are available to children?**

***Do you believe that green revolution has made India self sufficient in food grains? How?**

Subject - Science

Project Work- Biology

Q1. What is Irrigation? Highlight the importance of Irrigation. Explain the types of Irrigation system with the help of diagram.

Q2. Revise the syllabus of T1 & T2 Exam. (done till now)

(Physics+Chemistry+Biology)

Q3. Solve the following worksheets on separate Notebooks

- **Highlight the effect of insects and pests on crops?**
- **Why should beekeeping be done in good pasturage?**
- **In agricultural practices higher input gives higher yield. Discuss how?**
- **Assertion-the unit of work is Nm**

Reason- Nm is the SI unit of work where N is used for Newton.

a) Both Assertion and Reason are correct, and reason is the correct explanation for assertion.

b) Both Assertion and Reason are correct, and reason is not the correct explanation for assertion.

c) Assertion is true but Reason is false.

d) Both Assertion and Reason are false.

