

ESTD:- 2013

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# R.M PUBLIC SCHOOL

(CBSE AFFILIATION NO. 730072)

SESSION: 2024-25

SUMMER HOLIDAYS HOMEWORK

CLASS:- 10<sup>th</sup>



**Dear Students**

*Learning is the beginning of wealth. Learning is the beginning of health.  
Learning is the beginning of spirituality.*

*Searching and learning is where the miracle process all begins.*

.....Jim Rohn

The summer vacation, this time would not be ice creams, candies and cool pool, but time can be utilized in honing skills and interests. It is easy to bloom, then to be bud, but you are responsible young members of nation and its our duty to follow rules. Here are some holiday activities designed for creative utilization of time. Give a flight to your imagination and spend time purposely. This summer vacation the holiday homework so designed by the mentors of the school is a medium for you all to achieve the motto of “Fun and Learn”.

**REMEMBER**

- Neatness and hygiene are part of your routine.
- Holidays homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.
- Its a perfect time to enhance your speaking skills and vocabulary by conversing in English with your family and siblings.
- Reading is essential for those who seek to rise above the ordinary. Spend your quality time with reading purposeful books.
- A beautiful handwriting makes a good impression. Practice one page of English and Hindi writing daily.
- Schedule your time for activities so that there is no piling up for the last moment.
- Holiday homework should be your authentic creative work.

**SUBMIT HOLIDAYS HOMEWORK ACCORDING TO THE GIVEN TIME AND SLOT SCHEDULE**

DATE	SLOTS	ROLL NO.	TIMING
15-7-2024	FIRST	1 TO 15	08:00 am to 08:30 am
	SECOND	16 onwards	08:30 am to 09:00 am

**NOTE:** The marks of holiday homework will be included in your Term-1 exam. Kindly deposit the holiday homework on above mentioned slots, later it will not be accepted by the class teacher.

## **HAPPY SUMMER VACATIONS**

Vacations are the best time to relax and enjoy. Summer vacation is the reason behind fun in the Sun, beach and shadow of the umbrella.

- This is to inform all the students that the summer vacation is going to begin from **1<sup>ST</sup> June, 2024** and will end on **16<sup>th</sup> July, 2024**. The school will reopen on **18th July, 2024 i.e. Thursday**.
- We hope you have a fantastic vacation with your family.

SR.NO	SUBJECT	ASSIGNMENT	ACTIVITY/PROJECT	MATERIAL REQUIRED
1	Biology	<p>1 What are plant hormones or phyto hormones? Discuss the various types of Phytohormones.</p> <p>2: "Nervous and hormonal system together perform the function of control and coordination in human beings. Justify this statement.</p>	<p>1: Prepare a project on following topics:</p> <p>(a) Make a model of human endocrine system. (For odd roll no's.)</p> <p>(b) Make a working model of human circulatory or respiratory system. (For even roll no's.)</p> <p>2: ACTIVITY:</p> <p>Theme- Health and Hygiene</p> <ul style="list-style-type: none"> <li>• Select any five brands each of aerated soft drinks and fruit juices. Find out the nutrient content, price , advantage and disadvantage of each one of them.</li> <li>• Conclude with reasons what kind of beverage should be used.</li> <li>• Present this information in file using pictures, A4 sheet etc.</li> </ul>	Cardboard, sheets, colours, clay etc.

PHYSICS	<p>1.Explain the following phenomenon of scattering of light happening of daily life:</p> <p>(a) Blue colour of sky.</p> <p>(b) Appearance of sun reddish at sunrise and sunset.</p> <p>(c) Dangerous sign are always red in colour.</p> <p>*Revise the ray diagram for image formation by concave mirror, convex mirror, concave lens and convex lens to obtain position, size, and nature of image formed for different positions of object.</p>	<p>ACTIVITY 1: Investigate the properties of light. Explore the behaviour of light through experiment such as reflection and refraction. Build simple optical devices like lenses and mirror to understand their properties. (For odd roll no's )</p> <p>ACTIVITY 2: (a) Draw a neat and labelled diagram of Human eye and write the function of cornea, pupil, iris, crystalline lens, ciliary muscles, and retina. For even Roll no's.</p> <p>PROJECT WORK: Innovative model on theme science and technology for society:</p> <p>Sub theme</p> <ul style="list-style-type: none"> <li>• Communication and transportation</li> <li>• Health</li> </ul>	<p>Chart paper, colourful pens, pencil etc.</p>
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Chemistry	<p>1. Why should curd and sour substance not be kept in brass and copper vessels?</p> <p>2. While diluting an acid why it is recommended that the acid should be added to water and water not to acid?</p> <p>3. Write an equation to show the reaction between plaster of Paris and water</p> <p>*Revise chemical reactions and equations.</p>	<p><b>Model</b></p> <p>a) To prepare a soda acid fire extinguisher (<b>odd roll numbers</b>)</p> <p>b) To prepare your own acid base indicator from beet root extract (<b>even roll numbers</b>)</p> <p>*To study the reaction of acids and bases with metals.</p>	<p>Bottle, <math>\text{NaHCO}_3</math>, <math>\text{H}_2\text{SO}_4</math> etc.</p> <p>Beet root, Bottle etc.</p> <p>Zinc metal, <math>\text{NaOH}</math>, <math>\text{H}_2\text{SO}_4</math>, <math>\text{HCl}</math>, <math>\text{HNO}_3</math> etc</p>
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2.	Maths	<p>1. A motor boat whose speed is 18km/hr in still water takes 1 hr more to go 24km upstream than to return downstream to the same spot . Find the speed of stream.</p> <p>2. Two trains leave a railway station at the same time. The first train travels due west and the second train due North. The first train travels 5km/hr faster than the second train. If after two hours, they are 50km apart, find the average speed of each train.</p> <p>Q3. Revise units Quadratic Equations, Linear equations in two variables, Polynomials and Real Numbers.</p>	<p><b>ACTIVITIES</b></p> <p>1. To verify that the given sequence is an A.P by paper cutting and pasting method</p> <p>2. To verify that the sum of first n natural numbers is <math>n(n+1)/2</math> by graphical method</p>	<p>Coloured paper, geometry box, fevicol, scissors , drawing sheets etc</p> <p>White chart paper, sketch pen , graph paper, geometry box etc.</p>
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3.	S.Sc	<p>1. How have human activities catalyst the depletion of flora and fauna? Explain</p> <p>2. How are the legislative powers distributed between the Union Government and the State Government by the constitution? Explain</p> <p>Note :1 Revise all syllabus done till date.</p>	<p>Prepare a project file on the topic consumer rights and sustainable development</p> <p>Consumer rights (Rollno.1 to 15)</p> <p>Sustainable development (16 onwards)</p>	Project File, colourful sheets etc
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4	English	<p>1: Compare and contrast the writing styles of the two authors you read. How did their styles contribute to the overall impact of the novels?</p> <p>2: Colin Wilson. An English author said “Your imagination should be used not to escape reality, but to create it.” Compare and contrast Anne Frank and Amanda in the light of this Authors opinion.</p> <p>3: A misanthrope is a person who dislikes humankind. Do you think the poet is a misanthrope? Provide a rational to support your answer.</p> <p>Note: Kindly do all these questions on A4 size sheets and make a separate file by heading “Literary Quest”</p>	<p>Q1: Prepare a project file on the poem “The Ball”. The topic should covered are as under</p> <ul style="list-style-type: none"> <li>● Explanation</li> <li>● Structure</li> <li>● Theme</li> <li>● Contrast</li> <li>● Comment on Tone</li> <li>● Literary devices.</li> </ul> <p>Roll no ( 1-20)</p> <p>Q2: Prepare a project file on the poem “ The Trees”.</p> <ul style="list-style-type: none"> <li>● Same topics have to be covered as mentioned in Q1.</li> </ul> <p>(Roll no 21 onwards)</p>	Project File, colourful sheets etc
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5.	I.T	<p>Q1. Write the steps to turn on sticky keys and paste the screenshot for the same.</p> <p>Q2. Collect the information about any 4 instant messaging software.</p> <p>Q3. Divide your page into 3 columns and design a brochure on the topic "Heritage sites of UT-J&amp;K" using illustrations, shapes and word art.</p> <p>Q4. Insert a picture and wrap it along with the text using text wrapping feature.</p>	<p>Q1. Design a poster on the topic given below in MS Word/LibreOffice Writer</p> <ol style="list-style-type: none"> <li>1. Share with Care(online sharing)[Roll No-1 to 10]</li> <li>2. Back to School [Roll No-11 to 20]</li> <li>3. Virtual school [Roll No-21 to 30]</li> <li>4. Hyper loop - new mode of transportation.[Roll no 30 Onwards]</li> </ol> <p>Q2. Using document templates create your own resume in MS WORD</p>	<p>Instructions for file:</p> <ol style="list-style-type: none"> <li>1. Take portfolio folder.</li> <li>2. Prepare a title page including school name, your name and class &amp; section.</li> <li>3. Insert an acknowledgement page.</li> <li>4. Write the steps and paste screenshots for each activity on a separate page.</li> </ol>
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## 6. हिंदी

प्र०1 - ' मनुष्यता 'पाठ में कवि ने किन-किन महान दानवीरों का उल्लेख कर मनुष्यता शब्द के वास्तविक अर्थ को परिभाषित किया है विस्तार से लिखिए । [‘ए4’ शीट पर]

प्र०2-' बड़े भाईसाहब ' पाठ के माध्यम से आपने शिक्षा पद्धति के उन दोषों के बारे में जाना जो बच्चों को किताबी कीड़ा बनाते हैं और जीवन के व्यावहारिक ज्ञान से अलग रखते हैं । इस पाठ से प्राप्त प्रेरणा का वर्णन कीजिए । [‘ए4’ शीट पर]

## गतिविधि कार्य

- 1- 'डायरी का एक पन्ना ' पाठ की प्रमुख घटनाओं ,पात्रों तथा तिथियों की सूची 'ए4' शीट पर तैयार कीजिए ।
- 2- समास की परिभाषा, समास के भेदों तथा उदाहरण सहित चार्ट के द्वारा प्रस्तुत कीजिए ।

## नमूना (माडल )

- 1- ' प्रदूषण ' के विभिन्न प्रकारों पर एक आकर्षक ' मॉडल 'तैयार कीजिए ।



## 6. Urdu

اردو

سوال (۱۱): درج ذیل کتاب میں شامل سبق "اسناد کا انحراف" کے بنا پر اپنے پسندیدہ ۵ اسناد کے بارے میں چند سطر میں لکھیں۔

سوال (۱۲):۔ ماحول کے بچانے کے لئے پھیرا کرنا چیلنج اپنے الفاظ میں مختصر طور پر لکھو۔

سوال (۱۳):۔ کوئی بھی (۱۰) دس محاوروں کو جملوں میں استعمال کریں۔ الگ الگ دنیائی قلم سے چارٹ (chart) پر لکھیں۔

### Note:

- Revise all syllabus done till date.
- Do all holidays homework in separate notebook/sheets.
- Frame 10 long answer type questions (Roll no 1 to 10), 10 Short answer type questions (Roll no 11 to 20) and 20 MCQ'S (Roll no 21 onwards) of S.St and Science that is done till date in the class. (The question selection should be from the chapters)

Regards

Vice Principal