



# INTERNATIONAL PUBLIC SCHOOL

HOSHANGABAD ROAD, MISROD, BHOPAL

## HOLIDAY HOMEWORK CLASS – X Session (2025-26)

SUBJECTS	HOMEWORK	INSTRUCTION
ENGLISH	<ol style="list-style-type: none"> <li>1. Read a Book / Novel of your interest. Write a Book Review on it. Following points should be included to make it appealing. <ul style="list-style-type: none"> <li>*Name of the book, Date and year of publication</li> <li>* Summary of the story you read.</li> <li>*Write about any two main character.</li> <li>*Mention the incident which attracted you most.</li> </ul> </li> <li>2. Write a Report / Travelogue of your visit to an attractive place in about 100-120 words. Paste pictures for attraction.</li> <li>3. Prepare a project report on life and history of ROBERT FROST with two examples of short poems.</li> <li>4. Write a Report and paste pictures ( minimum -10) of IPL - 2025 in scrap book.</li> </ol>	Note: This project is to be done in <b>scrap book</b> .
HINDI	<p>प्रतिदिन एक पेज शुद्ध लेखन लिखिए। रचना के आधार पर वाक्य के प्रकार दो_दो उदाहरण के साथ flow chart पर लिखकर लाइए। 'मेरी अविस्मरणीय यात्रा' पर एक अनुच्छेद लिखिए।</p>	Use A 4 size colour paper

<p><b>SANSKRIT</b></p>	<p>प्रश्न:1 अव्ययपदानि हिंदीअर्थेन सह लिखत ।  प्रश्न: 2 समयानुसारं घटिका निर्माणं कृत्वा दिनचर्या लिखत ।  प्रश्न: 3 अधोलिखित शब्दरूपाणि लिखत ।  (i) अकारांत पुल्लिङ्ग – राम  (ii) इकारांत पुल्लिङ्ग – कपि  (iii) उकारांत पुल्लिङ्ग – साधु  (iv) आकारांत स्त्रीलिङ्ग – गीता  (v) ईकारान्त स्त्रीलिङ्गम् – नदी  (vi)इकारान्त स्त्रीलिङ्गम् – शक्ति  (vii) अकारांत नपुंसकलिङ्ग – पुस्तक  (viii) ऋकारान्त - पितृ, मातृ</p>	<p>(Chart sheet)    (Chart sheet)    (उत्तरपुस्तिका)</p>
<p><b>MATHEMATICS</b></p>	<p>Q 1. Find the sum of exponents of prime factors in the prime-factorization of 196</p> <p>Q 2. The total number of factors of a prime number is:.....</p> <p>Q 3. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 750. If one number is 250, then find the other number</p> <p>Q 4. On a morning walk, three men step off together and their steps measure 54 cm, 60 cm and 48 cm, respectively. What is the minimum distance each should walk so that each can cover the same distance in complete steps?</p> <p>Q 5. The LCM of two numbers is M times their HCF. The sum of LCM and HCF is 750. If one number is 250, then find the other number.</p> <p>.Q6. If one zero of the quadratic polynomial <math>x^2+3x+k</math> is 2,find the value of k ?</p> <p>Q7.Sum of zeroes of the polynomial <math>2x^2 - 4x + 5</math> is 4. Navdeep at once said “it is false” Do you agree with Navdeep ? Justify.</p> <p>Q8.The pair equations <math>y = 0</math> and <math>y = - 7</math> has -----  <b>SOLUTION</b></p> <p>Q9. Given the linear equation <math>x - 2y - 6 = 0</math>, write another linear equation in these two variables, such that the geometrical representation of the pair so formed is:</p>	

(i) coincident lines

(ii) intersecting lines

### Case Study-1: Lusitania Bridge

Quadratic polynomial can be used to model the shape of many architectural structures in the world. The Lusitania Bridge is a bridge in Merida, Spain. The bridge was built over the Guadiana River in 1991 by a Spanish consortium to take the road traffic from the Roman bridge. The architect was Santiago Calatrava. The bridge takes its name from the fact that Emerita Augusta (present day Merida) was the former capital of Lusitania, an ancient Roman province.

Based on the above information, answer the following questions.




i. If the Arch is represented by

$10x^2 - x - 3$ , then find its zeroes.

ii. Find the quadratic polynomial whose sum of zeroes is and product of zeroes is 1.

**OR**

iii. Find the sum and product of zeroes of the polynomial  $\sqrt{3}x^2 - 14x + 8\sqrt{3}$  (2

	<p>1. The figure given alongside shows the path of a diver, when she takes a jump from the diving board. Clearly it is a parabola. Annie was standing on a diving board, 48 feet above the water level. She took a dive into the pool. Her height (in feet) above the water level at any time 't' in seconds is given by the polynomial h(t) such that <math>h(t) = -16t^2 + 8t + k</math>.</p>  <p>(i) What is the value of k?</p> <p>ii) At what time will she touch the water in the pool?</p> <p>iii) Rita's height (in feet) above the water level is given by another polynomial p(t) with zeroes - 1 and 2. Then find p(t)</p> <p><b>ACTIVITY:</b> To verify consistency/inconsistency of a pair of equations (Do in activity copy)</p> <p><b>PROJECT:</b> PROJECT: Early history of Mathematics : This project help students to develop awareness about history of mathematics from Euclid to Euler</p> <p><b>*Project will do in file (A4 size papers )</b></p>	
<b>SCIENCE</b>	<p>As a part of Holiday Home Work, you are required to make working model (any one) individually under any of the following sub topic</p> <p><b>1.Models based on scientific principles of Physics/Chemistry/Biology.</b></p> <p><b>2.Sustainable management.</b></p> <p><b>3.Disaster management.</b></p>	Date of submission - 23/6/25
<b>SOCIAL SCIENCE</b>	<p>Please make a note on the Project work to be done for Internal Assessment</p> <p><b>Topic: Sustainable Development/Social Issues</b></p>	

	<p>General Instructions:</p> <ol style="list-style-type: none"> <li>1. Maximum- 12 -15 sheets (including pictures)</li> <li>2. Colourful sheets and eye catching presentation are more than welcome.</li> <li>3. The project must be handwritten.</li> <li>4. Your project should cover following points             <ol style="list-style-type: none"> <li>i. Acknowledgement</li> <li>ii. Name/Class</li> <li>iii. Index</li> <li>iv. Topic</li> <li>v. Types</li> <li>vi. Causes</li> <li>vii. Impact</li> <li>viii. Case Study</li> <li>ix. Conclusion</li> <li>x. Bibliography</li> </ol> </li> </ol> <p>If you are going to opt for social issues kindly select the topics given below (any two)</p> <p>Female Foeticide          Child Labour          Poverty          Corruption          Dowry          Over Population          Illiteracy          Child Abuse          Job          Gender Inequality</p>	
<b>INFORMATION TECHNOLOGY</b>	<ol style="list-style-type: none"> <li>1. Design a flyer for a school magazine front page using LibreOffice Writer. Use a <u>Template</u>, design the flyer, and then print or paste it in your practical file.</li> <li>2 Design Resume / Bio-Data in LibreOffice Writer with instructions to apply different <u>styles</u> to make it look professional and polished.</li> </ol>	<p>Details for the Flyer:</p> <ul style="list-style-type: none"> <li>• Magazine Title: <i>"Spectrum – The Voice of Young Minds"</i></li> <li>• School Name: International Public School</li> <li>• Issue: <i>Annual Edition – 2025</i></li> </ul>

	<p>3. create a script using the image wrapping feature in LibreOffice Writer, and choose a topic from a commonly used list for such exercises(any one).</p> <p>Script Title:</p> <ol style="list-style-type: none"> <li>1. Any mythological story(only two pages)</li> <li>2. Any Comic character (only two pages)</li> </ol>	<ul style="list-style-type: none"> <li>• Theme: <i>Innovation, Imagination, and Inspiration</i></li> </ul> <p><b>Highlights:</b></p> <p>Creative Writing &amp; Poems Science &amp; Technology Section Art Gallery</p> <p>Paste output in your IT Practical File.</p>
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