

**WINTER VACATION  
HOMEWORK 2025**

**Class- 11 Science/Commerce/Arts**

<b>Subject</b>	
<b>English</b>	
<b>Hindi</b>	Complete the given NEWSPAPER.
<b>Mathematics</b>	Solve chapter LIMITS and DERIVATIVE.
<b>Science (Biology)</b>	<i>MAKE A PPT ON Z SCEHME</i>
<b>(Physics)</b>	<p>Gravitation.</p> <ul style="list-style-type: none"> <li>• Why does acceleration due to gravity decrease with altitude and depth?</li> <li>• Explain why astronauts feel weightless in orbit even though gravity is acting on them.</li> <li>• How does the variation of g affect the motion of a pendulum at different places on Earth?</li> <li>• Why is escape velocity independent of the mass of the body being projected?</li> </ul> <p>Rotational Motion</p> <ul style="list-style-type: none"> <li>• Distinguish between torque and angular momentum with real-life examples.</li> <li>• Why is it easier to balance on a moving bicycle than a stationary one?</li> </ul>

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	<ul style="list-style-type: none"> <li>• Explain why a tightrope walker uses a long pole for balance.</li> <li>• Why do figure skaters spin faster when they pull their arms inward?</li> </ul> <p><b>Thermodynamics</b></p> <ul style="list-style-type: none"> <li>• State and explain the first law of thermodynamics with a daily-life example.</li> <li>• Why is no heat engine 100% efficient?</li> <li>• Explain entropy in simple terms with an example from everyday life.</li> <li>• Why does pressure cooker reduce cooking time?</li> </ul> <p><b>Project</b></p> <ul style="list-style-type: none"> <li>• Pendulum experiment: Measure time period for different lengths, plot T<sup>2</sup> vs L.</li> <li>• Model satellite orbits (geostationary vs polar) with diagrams or a 3D chart.</li> </ul>
<b>(Chemistry)</b>	
<b>Accountancy</b>	Solve the question no. 1 to 10 of DEPRECIATION from D.K.Goel and all questions of NCERT of Depreciation
<b>Economics</b>	Solve the question of PT-3
<b>Business Studies</b>	Solve the question of PT-3
<b>History</b>	<ol style="list-style-type: none"> <li>1. Complete the questions of chapter 5 and 6</li> <li>2. Make a practical file on the topic Myriad realms of slavery on Ancient, Medieval and Modern world</li> </ol>

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<b>Political Science</b>	1. Make a practical file on the topic Elections in India
<b>Geography</b>	Complete the practical File: {Prepare the file accordingly : Chapter 1 Introduction to Maps • Essentials of map making • History of map making • Maps -types • Uses of maps Chapter 2 Map Scale • Scales-methods and construction • Conversion of scale Chapter 3 Latitude, Longitude and Time • Drawing of Parallels of latitude and Meridians of longitude • Longitude and time • International date line Chapter 4 Map Projections • Map projection- typology, construction and properties of projection: Conical with one standard parallel and Mercator's projection. (only two projections) Chapter 5 Topographical Maps • Study of topographic maps (1 : 50,000 or 1 : 25,000 Survey of India maps); Conventional Symbols, contour cross section and identification of landform slopes, hills, valleys, waterfall, cliffs; distribution of settlements Chapter 6 Introduction to Remote Sensing • Satellite imageries, stages in remote sensing data-acquisition, platform and sensors and data products, (photographic and digital
<b>IT/Computer</b>	<b>Complete the Annual Practical file 2025-26 as per below instructions</b> <b>SUBMISSION DATE- 17TH JANUARY 2026</b> RUBRICS 1. FRONT PAGE 2. INDEX 3. ACKNOWLEDGEMENT 4. CERTIFICATE 5. 15 JAVA PROGRAMS AND 15 SQL QUERIES WITH OUTPUT
<b>PE</b>	Solve All the MCQ of chapter 1 to 5