



# St. Mary's Convent Inter College

Manak Nagar, Lucknow

## SUMMER VOCATION HOMEWORK (SESSION 2024-2025)

### CLASS-XII

S. No.	Subject	Homework
1	ACCOUNTS	<ul style="list-style-type: none"><li>• Project File<ol style="list-style-type: none"><li>(1) Partnership (First Term Examination)</li><li>(2) Comparative Statements (Second Term Examination)</li><li>(3) Common size statements (Second Term Examination)</li></ol></li><li>• Additional Question to be solved from the following chapters<ol style="list-style-type: none"><li>(1) Fundamental basic concepts</li><li>(2) Valuation of Goodwill</li></ol></li></ul>
2	ECONOMICS	<ul style="list-style-type: none"><li>• Project File<ol style="list-style-type: none"><li>(1) Theory of Consumer Behaviour (First Term Examination)</li><li>(2) Money: Meaning and Functions (Second Term Examination)</li><li>(3) Banks: Commercial Banks and Central Bank (Second Term Examination)</li></ol></li></ul>
3	COMMERCE	<p>(ANY TWO TOPICS to be chosen from the following for 10 Marks each)</p> <ol style="list-style-type: none"><li>1. SWOT analysis of any goods, services, or of a company</li><li>2. Latest Banking trends</li><li>3. Consumer Protection - any five case laws</li><li>4. Marketing Strategies of two FMCG companies.</li><li>5. Organizational Structure of two companies</li></ol> <p>NOTES:</p> <ol style="list-style-type: none"><li>a. <u>Each</u> project must have common page of an Index, Acknowledgement, Preface in the beginning and bibliography at the last.</li><li>b. <u>Each</u> topic must be supplemented by learning, conclusions drawn and understanding of facts gathered while preparing topic on separate pages at the end of each topic.</li><li>c. <u>At least</u> 10 pages must be used to cover up topics other than common pages.</li><li>d. <u>No</u> page should be left blank and related pictures, photos, tables and charts must be used throughout and neatly pasted.</li></ol>

4	P.ED	<p>Find new 150 terminology for both games (cricket &amp; football ) separately.</p> <p>Search for maximum MCQ in chapters 1 to 4.</p> <p>Project file work (cricket &amp; football) .</p>
5	PHYSICS	<ul style="list-style-type: none"> <li>• Complete your project file.</li> <li>• Do all the numericals of Chapter 1, 2 &amp; 3 in your Physics copy.</li> </ul>
6	CHEMISTRY	<p>1.Prepare the chapters ‘Solutions’ and ‘Haloalkanes and halorenes’ and ‘Alcohols, phenols and ethers’ for the first unit test.</p> <p>2.Do the following questions in your fair copy:</p> <p>A.)Write the following named reactions:</p> <ol style="list-style-type: none"> <li>i. Finkelstein reaction</li> <li>ii. Swarts reaction</li> <li>iii. Hunsdiecker reaction</li> <li>iv. Wurtz reaction</li> <li>v. Iodoform reaction</li> <li>vi. Sandmeyer’s reaction</li> <li>vii. Gattermann reaction</li> <li>viii. Wurtz –Fittig reaction</li> <li>ix. Fittig reaction</li> <li>x. Grignard reagent preparation</li> <li>xi. Williamson’s synthesis</li> <li>xii. Dehydration reaction</li> <li>xiii. Esterfication reaction</li> <li>xiv. Kolbe’s reaction</li> <li>xv. Reimer -Tiemann reaction</li> <li>xvi. Azo dye test</li> <li>xvii. Friedel craft alkylation and acylation</li> </ol> <p>B.)How do the following conversions takes place?</p> <ol style="list-style-type: none"> <li>i. Chlorobenzene to Benzene</li> <li>ii. Benzene diazonium chloride to chlorobenzene</li> <li>iii. Iodoform to Ethyne</li> <li>iv. Ethanol to Chloroform</li> <li>v. Haloakane to nitroalkane</li> <li>vi. Chloroethane to Ethanamine</li> <li>vii. Propene to 2-Bromopropane</li> <li>viii. Propene to 1-Bromopropane</li> </ol>

		<ul style="list-style-type: none"> <li>ix. Ethanol to Chloroethane</li> <li>x. Bromoethane to Ethanol</li> <li>xi. Phenol to 2-nitrophenol</li> <li>xii. Anisole to 2-methoxyacetophenone</li> <li>xiii. Benzene to phenol(through cumene)</li> <li>xiv. Ethanol to ethoxyethane</li> <li>xv. Phenol to 2,4,6-tribromophenol</li> </ul> <p>C.)How will you distinguish between the following pair of organic compounds:</p> <ul style="list-style-type: none"> <li>a. Pentan-2-one and Pentan-3-one</li> <li>b. 2-Methylpropan-2-ol and Butan-2-ol</li> <li>c.Ethanol and Methanol</li> <li>d.Ethanal and ethanol</li> <li>e. Ethanol and phenol</li> </ul> <p>3.)Complete your project file.</p> <p>4.)Complete the practicals in lab manual.</p>
7	BIOLOGY	<p>Learn and Prepare Chapter 2,3 and 4 for Unit Assessment.</p> <p>Complete Experiments in Biology Lab manual.</p> <p>Prepare a project on the topic given individually.</p>
8	COMPUTER	<ul style="list-style-type: none"> <li>1) Prepare the Computer Project with at least 20 programs</li> <li>2) Prepare the chapter Boolean Algebra for assessment 1</li> <li>3) Attempt the Java programs from given exercise sheet</li> </ul>
9	ENGLISH LITERATURE	<p style="text-align: center;"><b>(PROJECT WORK)</b></p> <p>Q-1 With reference to Macbeth, discuss the Banquet scene as presented in Act III. Highlight its significance.</p> <p>Q-2 Based on Act III, discuss the disintegration of Macbeth's character and the widening ridge between Macbeth and Lady Macbeth.</p>

10	ENGLISH LANGUAGE	<p style="text-align: center;"><b>(PROJECT WORK)</b></p> <p>You recently visited a dog show which was a first time in your city. Describe the arena and different stalls. What were the different breeds of dogs present? Describe the deep impression it left on you and also include some interesting incident that occurred.</p>
11	MATHS	<p style="text-align: center;"><b>Chapter no. 3- MATRICES</b></p> <ol style="list-style-type: none"> <li>1. <b>Revise types of matrices , properties of addition , subtraction , multiplication , P.M.I concept .</b></li> <li>2. <b>Do examples of ex 3.2, 3.3 ,3.4</b></li> <li>3. <b>Do sums based on symmetric &amp; skew symmetric matrix ( at least 10 questions).</b></li> <li>4. <b>Revise properties of transpose .</b></li> </ol> <p style="text-align: right;"><b>Chapter no. 4-</b></p> <p><b>DETERMINANTS</b></p> <ol style="list-style-type: none"> <li>1. <b>Revise properties of determinants .</b></li> <li>2. <b>Concept of Martin’s rule ( non-homogeneous system &amp; homogeneous system) .</b></li> <li>3. <b>Solve 2x2 &amp; 3x3 system by using Martin’s rule ( 5 questions of each system) .</b></li> <li>4. <b>Find area , equation of line by using Determinant ( 2 questions of each type) .</b></li> <li>5. <b>Do sums based on properties of determinants ( 20 questions) .</b></li> </ol>