



MARKS

- k) Find the distance between two parallel lines $3x + 2y - 6 = 0$ and $3x + 2y - 12 = 0$.
- l) Find the centre and radius of the circle $2x^2 + 2y^2 + 5x - 6y + 3 = 0$.
- m) Expand $(x + 3y)^4$ using binomial theorem.
- n) If $\sin \theta = \frac{3}{5}$ and $\cos \theta = \frac{4}{5}$ find $\tan \theta, \cot \theta$.

2. Attempt any four of the following :

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- a) Resolve into partial fraction $\frac{x-5}{x^3+x^2-5x}$.
- b) Resolve into partial fraction $\frac{13x+19}{(x+3)(x-2)(x+1)}$.
- c) Find 7th term of $\left(\frac{x}{y} - \frac{y}{x}\right)^{10}$.
- d) The currents I_1, I_2 and I_3 in three loops gave the following equations. Find the values of I_1, I_2, I_3 using Cramer's rule
- $$\begin{aligned} 2I_1 - I_2 + I_3 &= 0 \\ 4I_1 - I_3 &= 2 \\ 2I_2 + I_3 &= 2. \end{aligned}$$
- e) Using Binomial Theorem, prove that $(1 + \sqrt{3})^4 + (1 - \sqrt{3})^4 = 56$.
- f) If $\log \left(\frac{m+n}{3}\right) = \frac{1}{2}(\log m + \log n)$
Then show that $\frac{m}{n} + \frac{n}{m} = 7$.

3. Attempt any four of the following :

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- a) Find the adjoint of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 3 & 5 \\ 1 & 5 & 12 \end{bmatrix}$.
- b) If $A = \begin{bmatrix} 2 & 5 & 6 \\ 0 & 1 & 2 \end{bmatrix}, B = \begin{bmatrix} 6 & 1 \\ 0 & 4 \\ 5 & 7 \end{bmatrix}$ verify that $(AB)' = B'A'$.

Mechanical 7th Sem Question Papers

Minjie Lin



Mechanical 7th Sem Question Papers:

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composites and some advanced materials Metallurgy is the study of metals related to their extraction from ore refining production of alloys along with their properties The study of material science and metallurgy links the science of metals to the industries Also this helps in completing demands from new applications and severe service requirements Systems in Mechanical Engineering Anup Goel,2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge **Elements Of Civil & Mechanical Engineeri** L S Jayagopal, This book presents the fundamentals of Civil and Mechanical Engineering Designed as per the revised and new core engineering paper of Basic Engineering I this book is written in a style suitable for students just out of school **Mechanical System Design** Mr. Ajeet Singh,2018-05-14 EduGorilla has its own publishing wing producing exam prep books trade books etc Educart ICSE Class 10 One-shot Question Bank 2026 Physics (strictly for 2025-26 boards) Sir Tarun Rupani,2025-07-12 Concept clarity exam level practice for ICSE Physics Class 10 This One shot Question Bank by Sir Tarun Rupani is a complete revision and practice tool for ICSE Class 10 Physics created strictly according to the latest 2025 26 CISCE syllabus Ideal for both last minute prep and structured study the book balances theory with practical problem solving Key Features Based on the Latest ICSE 2025 26 Syllabus Full coverage of topics like Force Light Sound Electricity Magnetism and more One shot Format Each chapter begins with crisp summaries important formulas and diagrams for fast conceptual understanding All Question Types Covered Includes MCQs short answers long answers numericals and diagram based questions Chapterwise PYQs Included Real exam questions from past ICSE papers to familiarise students with actual paper trends Solved Answers in ICSE Format Stepwise solutions with proper units working and presentation as per the official marking scheme Numerical Practice Focus Special attention to frequently asked numericals and formula based problems with tricks to avoid calculation errors Why Choose This Book Whether you re revising Physics formulas or tackling complex numericals this One shot by Sir Tarun Rupani provides the exact support needed to boost your confidence and performance An ideal revision companion to master Physics and score high in the 2026 ICSE board exam Educart ICSE Class 10 Physics Chapter-wise Question Bank (Solved Papers) 2025-26 - Strictly Based on New Syllabus 2026 Educart,2025-04-16 Book Structure Previous years questionsDetailed Solutions Explanations Use Educart ICSE Class 10 Question Bank to score 95 % Covers the latest ICSE 2025 26 syllabus with well structured content Includes previous years questions to help students understand exam trends Features exam oriented

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