

Sample Question Paper

Course Name : Mechanical Engineering Group

Course Code : ME/PT/PG/AE/MH

Semester : Fourth

Subject Title : Theory of Machines and Mechanisms

Marks : 100

12089

Time: 3 Hour

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Use of non-programmable calculator is permissible.
4. Illustrate your answer with neat sketches wherever necessary.
5. Preferably, write the answers in sequential order.

Q.1 A) Attempt Any SIX of the following:

12 Marks

- a) Define kinematic link and kinematic pair.
- b) List type of constrained motion.
- c) Define rolling pair with one example.
- d) Study the coupler rod of locomotive given in figure and identify the type of kinematic pairs.



- e) List four types of followers.
- f) Define the pressure angle as related to cam.
- g) State advantages of Rope drive.
- h) State causes of vibrations in machines.

Q.1 B) Attempt any TWO of the following:

08 Marks

- a) Draw a sketch and explain the working principle of Geneva mechanism.
- b) Draw labeled sketch of Oldhams Coupling.
- c) Distinguish between machine and structure on the basis of
 - i) Motion
 - ii) Type of entity transferred
 - iii) Mechanism
 - iv) Application

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Lindeburg,1998 Engineers agree that taking mock exams provides excellent practice for the real thing The Mechanical Engineering Sample Examination contains an eight hour practice exam similar in difficulty to the mechanical PE exam All problems are accompanied by fully explained solutions *Practice Problems for the Mechanical Engineering PE Exam* Michael R. Lindeburg,2006 The best way to prepare for the mechanical PE exam is to solve problems the more problems the better Practice Problems for the Mechanical Engineering PE Exam provides you with the breadth and depth problem solving practice you need to successfully prepare for the exam Build your confidence and improve your problem solving skills More than 500 problems similar in format and difficulty to the actual exam Coordinated with the chapters of the Mechanical Engineering Reference Manual Step by step solutions explain how to reach the correct answers most efficiently Comprehensive coverage of exam topics The Mechanical Engineering Reference Manual along with the Practice Problems and the Sample Exam successfully prepared me for the exam Adam Ross PE Mechanical Engineer **Previous Years' Solved Question Papers GATE Mechanical Engineering 2019** Pearson, Previous Years Solved Question Papers GATE Mechanical Engineering 2019 **Mechanical Engineering PE Sample Exam** Jerry Hamelink,2007-12-15 This book offers a complete sample exam covering both morning and afternoon sections includes step by step solutions to every problem an exam overview and tips *Fundamentals of Engineering* ,2010 *Mechanical Systems and Materials* ,2011

Fundamentals of Engineering ,1999 *Mechanical Comprehension Tests* Richard Anthony McMunn,How2become,2012-06 Mechanical comprehension tests are used widely during technical selection tests within the careers sector Mechanical comprehension and reasoning tests combine many different elements The test itself is usually formed of various pictures and diagrams that illustrate different mechanical concepts and principles Mechanical comprehension and reasoning tests are normally highly predictive of performance in manufacturing technical and production jobs This comprehensive guide will provide you with sample test questions and answers to help you prepare for your mechanical comprehension test An explanation of the tests and what they involve Sample timed tests to assist you during your preparation Advice on how to tackle the tests Understanding mechanical advantage Answers and explanations to the questions An introduction chapter for fault diagnosis **Mechanical Engineering Solved Papers GATE 2022** Lalit Jain,2021-06-21 1 The book is prepared for the preparation for the GATE entrance 2 Thepractice Package deals with Mechanical Engineering 3 Entire syllabus is divided into chapters 4 Solved Papers are given from 2021 to 2000 understand the pattern and build concept 5 3 Mock tests are given for Self practice 6 Extensive coverage of Mathematics and General

Aptitude are given 7 Questions in the chapters are divided according to marks requirements 1 marks and 2 marks 8 This book uses well detailed and authentic answers Get the complete assistance with GATE Chapterwise Solved Paper Series that has been developed for aspirants who are going to appear for the upcoming GATE Entrances The Book Chapterwise Previous Years Solved Papers 2021 2000 GATE Mechanical Engineering has been prepared under the great observation that help aspirants in cracking the GATE Exams As the name of the book suggests it covers detailed solutions of every question in a Chapterwise manner Each chapter provides a detailed analysis of previous years exam pattern Chapterwise Solutions are given Engineering Mathematics and General Aptitude 3 Mock tests are given for Self practice To get well versed with the exam pattern Level of questions asked conceptual clarity and greater focus on the preparation This book proves to be a must have resource in the solving and practicing previous years GATE Papers TABLE OF CONTENT Solved Papers 2021 2012 Engineering Mathematics Engineering Mechanics Strength of Material Strength of Material Theory of Machine Machine Design Fluid Mechanics Heat and Mass Transfer Thermodynamics Refrigeration and Air Conditioning Power Engineering Production Engineering Industrial Engineering General Aptitude Crack Papers 1 3 *Sample Examinations: Mechanical engineering* California. State Board of Registration for Civil and Professional Engineers, 1952 **GATE Mechanical Engineering Exam Prep Book | 10 Full-length Mock Tests + 6 Previous Year Papers** EduGorilla Prep Experts, 2022-08-03 Best Selling Book for GATE Mechanical Engineering Exam with objective type questions as per the latest syllabus Compare your performance with other students using Smart Answer Sheets in EduGorilla's GATE Mechanical Engineering Exam Practice Kit GATE Mechanical Engineering Exam Preparation Kit comes with 16 Tests 10 Mock Tests 6 Previous Year Papers with the best quality content Increase your chances of selection by 14X GATE Mechanical Engineering Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts **PE Mechanical Engineering**, 2016 This book contains 80 questions from the PE Mechanical Machine Design and Materials exam specifications Solutions are provided NCEES sample questions are written by the same professional engineers who develop the actual exam Amazon **Mechanical Engineering for Professional Engineers' Examinations** John Dennis Constance, 1969 **Mechanical Engineering PE** Carlos Chapek, 2009 The practice exam consists of 40 multiple choice questions for the afternoon session Mechanical Systems and Materials The purpose of this practice exam is to provide an opportunity for candidates seeking licensure in mechanical engineering to simulate the experience of taking the Mechanical Systems and Materials of the exam Taking the practice exam and reviewing the solutions provided will help examinees evaluate their strengths and weaknesses and allow them to improve their performance in the actual exam P 2

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