

0000100

# MECHANICAL ENGINEERING

## Paper I

Time Allowed : Three Hours

Maximum Marks : 200

### QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are EIGHT questions in all, out of which FIVE are to be attempted.

Question No. 1 and 5 are compulsory. Out of the remaining SIX questions, THREE are to be attempted selecting at least ONE question from each of the two Sections A and B.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in ENGLISH only.

Unless otherwise mentioned, symbols and notations have their usual standard meanings.

Assume suitable data, if necessary and indicate the same clearly.

Neat sketches may be drawn, wherever required.

### SECTION 'A'

- 1.(a) What is contact ratio for a pair of gears. What is its importance? Determine contact ratio for a pair of two (20°) involute gears of 8 mm module having 23 and 57 teeth. If the addenda on the gears are equal to module, find the contact ratio. 8
- 1.(b) What is critical speed of a shaft? Determine critical speed of a shaft 24 mm dia carrying a mass 12 kg at its mid span measuring 1 m. The eccentricity of the mass is 0.11 mm. The material of the shaft is steel with  $E = 200 \text{ GN/m}^2$ . Find the critical speed of the shaft. 8
- 1.(c) A circular steel rod tapers uniformly from 40 mm diameter to 150 mm diameter in a length of 400 mm. How much the bar will elongate under an axial pull of 40 kN? Take  $E = 200 \text{ GPa}$ . 8
- 1.(d) A square bar 20 mm  $\times$  20 mm in section, 1.5 m long, is freely supported at its ends in a horizontal position and is loaded with a central load of 200 N. The central deflection due to concentrated load is found to be 5 mm.  
If the same bar is placed vertically (both ends hinged) and loaded centrally along its axis, what load is likely to cause the bar to buckle? 8
- 1.(e) What are dual-phase steels? Why are dual-phase steels named so? Enlist important characteristics of dual-phase steels. 8
- 2.(a) Two pulleys of diameters 480 mm and 640 mm are connected by an open belt drive with distance between two pulleys set at 3 m. It was decided to change the direction of driven pulley (640 mm dia). How much extra length of the belt is required? 10

# UpSC Mechanical Engineering Question Paper

**Lingjun Ying**



## **Upsc Mechanical Engineering Question Paper:**

**UPSC-ESE-Engineering Services Stage-I (Preliminary/Stage-I) Exam eBook PDF** Chandresh Agrawal,nandini books,2025-04-25 SGN The eBook UPSC ESE Engineering Services Stage I Preliminary Stage I Exam Covers Mechanical Engineering Subject Objective Questions With Answers **UPSC CSAT Prelims Exam Paper - 2 | 1000+ Solved Objective Questions (10 Mock Tests + 3 Previous Year Papers)** EduGorilla Prep Experts,2022-08-03 Best Selling Book in English Edition for UPSC CSAT Prelims Exam Paper 2 with objective type questions as per the latest syllabus given by the UPSC Compare your performance with other students using Smart Answer Sheets in EduGorilla s UPSC CSAT Prelims Exam Paper 2 Practice Kit UPSC CSAT Prelims Exam Paper 2 Preparation Kit comes with 13 Tests 10 Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X UPSC CSAT Prelims Exam Paper 2 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 *Mechanical Engineering (O.T.)* Dr. R.K. Bansal,2001 [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

**Crack UPSC in First Attempt Civil Services Exam IAS/IPS/IFS** K. Kohli ,2024-05-08 In the hustle to make career that is regulated by society most give up on their dreams and passions But for K Kohli writing was a compulsion not a choice That s how passion manifests It s like the mountain course of the river that forces its way through the roughest of the terrains Born in Delhi graduated from St Stephens College University of Delhi He is an inspirational speaker who motivates young

people to pursue careers in civil services and community development He continues to be an exemplary figure demonstrating how individuals can make a profound impact on their communities through dedication hard work and a deep sense of social responsibility The Civil Services have risen in social reckoning as a career due to its significant role in bringing government s policies to the people and making development possible on ground like a rainmaker Qualifying for the Civil Services is also considered as a mark of talent and success given that it requires passing through a multi stage rigorous system of examination and interview Apart from job security and satisfaction the services provide ample opportunities and challenges to prove one s mettle and also to contribute and give back to society In India the Civil Service is defined as appointive positions by the Government in connection with the affairs of the Union and includes a civilian in a Defence Service except positions in the Indian Armed Forces This exam is not for people who believe in shortcuts who are impatient and casual It seeks such people who believe in rigorous study Only the candidates who are thoroughly organised disciplined and determined can taste it s success ultimately the country needs officers equipped with these qualities If those candidates who have a profusion of the aforesaid qualities get the right guidance then they can definitely crack the IAS exam This book has been prepared for such deserving and appropriate candidates We are not just hopeful but have complete faith that his book will definitely work as a useful guidance in making the honest and strong willed candidates as IAS Move forward with Heart within and God overhead Connect at [kohlifoundationindia@gmail.com](mailto:kohlifoundationindia@gmail.com) [UPSC New Syllabus Preliminary and Mains Exam with Quick GK 2017 ebook 2nd Edition](#) Disha Experts,2017-08-01 UPSC New Syllabus Preliminary and Mains Exam with Quick GK 2017 ebook is the revised 2nd edition of the syllabus book for undergraduate STUDENTS taking up the UPSC examinations for recruitment into the Indian Administrative Services IAS The book contains the details of each and every subject topic which is relevant to the IAS Preliminary and Mains examination The book will update the aspirants on the latest changes in the syllabus of the Preliminary and Mains exams It is an important handy tool for the aspirants which they can refer throughout their preparation **(Free Sample) Mission IAS - Prelim & Main Exam, Trends, How to prepare, Toppers' Interviews, Strategies, Tips & Detailed Syllabus 4th Edition | UPSC, Civil Services, CSE | State PSC | 2022 Exam Analysis | For 2023 Exams** Disha Experts,2023-01-18 The latest and updated 4th edition of the book Disha s Mission IAS which is acclaimed as one of the most comprehensive books to understand the pattern syllabus level Scope of IAS exam and to devise a strategy to prepare and crack the exam The Main features of the thoroughly Revised Updated 4th edition are Powered with Excerpts from interviews of IAS Toppers and link to their complete video and transcript Covers exam patterns of CSAT Prelims Main English General Studies Optional Subjects as well as Interview Covers service profile recruitment training functions promotions designations remunerations of All India Services Central Civil Service Group A B under UPSC Civil Service Exams like IAS IPS IFS IRS etc This edition also includes the newly inducted IRMS Indian Railways Management Services Cadre Infographics bar charts and data in tabular form facilitating information quickly and clearly

Language is lucid making problem solving fun to candidates of diverse backgrounds Keeping the whole coverage of the book in accordance with the syllabus and pattern of the exam it will act as a standard reference and preparation material for all the needs of aspirants of CSAT Preparation material is in line with the analysis of Previous Years Exams Papers which will help aspirants know the trend of the questions and the difficulty level of the same It s a Complete guide for those aspirants who wants to start their UPSC Civil Services preparation but don t know how to start and where to start from *UPSC New Syllabus & Tips to Crack IAS Preliminary and Mains Exam with Rapid GK 2019 ebook 3rd Edition* Disha Experts,2018-08-28

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**Current Affairs 2017 for Competitive Exams - UPSC/ State PCS/ SSC/ Banking/ Insurance/ Railways/ BBA/ MBA/ Defence - 2nd Edition** Disha Experts,2017-08-01 The thoroughly updated 2nd edition of the book Current Affairs 2017 captures the Most Important Events Issues Ideas People of 2016 in a very lucid ans student friendly manner It is essential for aspirants to keep themselves updated as just knowing things can get them more marks in such exams Moreover Current Affairs prove to be very important tool to handle GD and PI It comes in handy for the aspirants of UPSC SSC Banking Insurance Railways Engg Services and AFCAT etc Infographics Charts and MindMaps have facilitated information quickly and clearly The information provided in the Current Affairs 2017 is in line with the analysis of previous years competitive exams papers which will help aspirants update on all happenings across India and the world Salient Features of the book Global Economic Outlook The India SWOT Analysis covers the social political economic aspects Timeline 2016 covering the timeline of important dates from Jan Dec 2016 of India and the World Bills Acts Provides features and details of the bills and acts that were passed in 2016 Policies Schemes Provides features and details of the policies and schemes that were launched in 2016 Top 500 covering the Top 500 People Events Ideas and Issues that raised their head in 2016 10 Analytical Articles capturing the hottest of the issues of 2016 Coming Up 2017 capturing the events to come and what to expect in 2017 Emerging Trends features the most significant news that captured the attention of people Cause Effects illustrates the causes and effects of the various things that occurred in 2016 Unanswered Questions However we may explore but there are always certain questions that remain unanswered This sections lists various such questions of the year 2016

*IAS Prelims 2017 A Complete Guide* Jagran Josh,2017-05-18 Product description of IAS e book This e book is a brief blueprint for cracking the IAS prelims exam 2017 This e book provides an in depth strategy to tackle each and every aspect

of the IAS prelims exam from the most basic question on how to start the IAS prelims preparation to strategies followed by IAS Toppers of the last few years The e book gives a step by step strategy for the candidates to help them do a systematic planning and preparation for the IAS Preliminary exam This e book saves both time and energy of IAS aspirants as it provides the student with all know how of the IAS prelims exam and acts as a one stop repository for all the information regarding the IAS Exam One of the key features of this e book is catering the questions like how to manage stress during IAS exam and how to prepare a timetable for IAS exam which book to read and which websites to follow for the IAS exam This e book will enrich an IAS aspirant s preparation in a wholesome manner It makes an attempt to guide the candidates on what is the right approach to tackle this highly unpredictable and competitive exam It covers everything that a candidate needs to know starting from the history and evolution of Civil Services in India to what to read and what not to read to tips from the IAS toppers It gives a topic wise detailed explanation of the syllabus and the related questions that have been asked in the past five years in the exam The book analyse the latest trend in the IAS prelims exam and decodes the live strategy of IAS aspirants to crack the IAS prelims exam It shows how the IAS Prelims exam has evolved over the years and how the focus is shifting more towards application based questions mostly influenced by current affairs It gives quick revision tips to the candidates along with tips on how to make notes The e book also provides guidance on how to sustain motivation throughout the long exam procedure

**Main Highlights** Civil Services History and its Evolution through the times Topic wise detail explanation of Syllabus of both papers Topic wise questions from last five years with answers Tips on websites to follow for IAS exam Tips to overcome stress during IAS exam Tips to Sustain Motivation Booklist from IAS Toppers Tips from IAS Toppers

*Indian Administration* Bhagwan Vishnoolal & Bhushan Vidya, Evolution Of Indian Administration Constitutional Framework Central Political Executive Structure Of Administration State Administration Centre State Relations Public Services Machinery For Planning Public Undertakings Control Of Public Expenditure Administration Of Law And Order District Administration Panchayati Raj Urban Local Government Administration For Welfare Major Issues In Indian Administration Administrative Reforms In India Annexure I Office Administration Annexure II salient Features Of The Indian Constitution Appendices I & II

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**Exam: General Studies Paper-1 Study Notes with Practice Question** R P Meena, The Civil Services Examination is a nationwide competitive examination in India conducted by the Union Public Service Commission for recruitment to various Civil Services of the Government of India including the Indian Administrative Service Indian Foreign Service and Indian Police Service Indian Heritage and Culture History and Geography of the World and Society Topic Covered 1 Salient features of world's physical geography 2 Social empowerment communalism regionalism factors responsible for the location of primary secondary and tertiary sector industries in various parts of the world including India Important Geophysical phenomena such as earthquakes Tsunami Volcanic activity cyclone etc Geographical features and their location changes in critical geographical features including water bodies and ice caps and in flora and fauna and the effects of such changes

### **26 Years Chapterwise Solved Questions UPSC IAS Pre General Studies Paper I for 2021 Exam Arihant**

Experts, 2020-11-24 1 The book provides Chapterwise Solved Question of previous 26 Years 2 It indicates the nature and trends of the questions that are being asked in UPSC examinations 3 The whole syllabus of the book is divided into 5 main parts 4 It contains Solved Papers 2020 2017 for IAS PRE General Studies PAPER 1 5 This book uses simple language for better understanding Introducing the all new revised edition of IAS PRE General Studies Paper 1 This book facilitates by giving the deep coverage on all the topics of the syllabus at one place with the conceptual clarity to fulfill the need and demands of the aspirants under different sections The special exam oriented structure has been given according to the UPSC syllabus discussion of the theoretical concepts with the contemporary examples are given Ample numbers of Questions are provided in a Chapterwise form and Solved Papers 2020 17 that help in rising up level of preparation Well detailed solutions are given for each question easing aspirants to understand the concepts This book acts as a great help in achieving success for the upcoming exam TOC IAS GENERAL STUDIES PAPER 1 SOLVED PAPER 2020 IAS GENERAL STUDIES PAPER 1 SOLVED PAPER 2019 IAS GENERAL STUDIES PAPER 1 SOLVED PAPER 2018 IAS GENERAL STUDIES PAPER 1 SOLVED

PAPER 2017 HISTORY OF INDIA AND INDIAN NATIONAL MOVEMENT INDIAN AND WORLD GEOGRAPHY INDIAN POLITY AND GOVERNANCE INDIAN ECONOMY GENERAL SCIENCE AND SCIENCE TECHNOLOGY GENERAL KNOWLEDGE

Pratiyogita Darpan, 2008-10 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine **The Pearson General Studies Manual 2009, 1/e** Showick Thorpe Edgar Thorpe, 2009 This latest edition of The Pearson General Studies Manual continues to provide exhaustive study material for the General Studies paper of the UPSC Civil Services Preliminary Examination This student friendly book has been completely revised thoroughly updated and carefully streamlined and is strictly exam centric In this new edition a large number of new boxes and marginalia with additional and relevant information have been added to provide cutting edge information to the aspirant Readers will find that important facts and information have been presented in the form of well structured tables and lists Pratiyogita Darpan, 2007-05 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine *Guide to Coal India Management Trainee Tier I & II Mechanical Engineering Exam with 2022 Solved Paper 2nd Edition* Disha Experts, 2019-12-24 Guide to Coal India Management Trainee Tier I II Mechanical Engineering Exam covers all the 5 sections including the Technical Ability section in detail The book covers the complete syllabus as prescribed in the latest notification The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by practice exercises The Technical section is divided into 11 chapters The book also provides 2022 Tier I II Solved Papers **Thermal Engineering** R. K. Rajput, 2010-04

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