

CIVIL ENGINEERING

Paper II

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 Nos. 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) A 9 degree curve branches off from a 8 degree main curve in an opposite direction in the layout of a M.G. yard. If the speed restriction on main line is 40 km/hr., what would be the speed restriction on branch line ? Assume permissible cant deficiency as 50 mm. 8
- 1.(b) A two lane undivided State Highway with thick bituminous pavement surface in high rainfall region has horizontal curve of radius 2950 m. If design speed is 100 km/hr., what is the superelevation requirement ? Also draw the cross-section at curved portion. 8
- 1.(c) A line of levels was run from A to B. The levelling was then continued to a B.M. of elevation 40.0 m. The readings obtained are as under. Obtain the reduced level of A and B. 8

B.S	I.S	F.S	R.L	Remarks
1.195				A
0.445		2.370		
2.150		0.995		
	0.720			B
1.465		0.260		
2.630		0.905		
		1.305	40.0	B.M.

- 1.(d) Explain in brief the important factors that affect the selection of Construction Equipment. 8
- 1.(e) Write short note on the following :  
(i) Light weight aggregate concrete.  
(ii) Types of rollers commonly used in construction projects for compacting soil. 8

# Civil Engineering Macanics Paper

**KJ Lindholm-Leary**



## **Civil Engineering Macanics Paper:**

**Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering ,1882** Civil Engineering Solved Papers GATE 2022 , 1 The book is prepared for the preparation for the GATE entrance 2 The practice Package deals with Civil 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 Strength of Material and Structural Analysis RCC Structure and Pre Stress Concrete Design of Steel Structure Soil Mechanics and Hydraulic Machines Environmental Engineering Irrigation Engineering and Engineering Hydrology Highway Engineering General Aptitude Crack Paper 1 3 37 Years GATE Civil Engineering Topic-wise Solved Paper (1986 - 2022) with Detailed Solutions 2023 OnlineVerdan,Infinity Educations, This book of GATE 2023 CIVIL ENGINEERING consists previous year questions of GATE from 1986 to 2022 containing 37 years paper set The questions are segregated in topic wise format encompassing all subjects such as Engineering Mechanics Strength of Materials Structural Analysis RCC Structures Prestressed Concrete Steel Structures Construction Planning Management Geotechnical Engineering Surveying Fluid Mechanics Environmental Engineering Hydrology and Irrigation The book has questions in decreasing year wise pattern which become it an ideal book for Civil Engineering aspirants **Perspectives in Civil Engineering** Jeffrey S. Russell,2003-01-01 This report contains 27 papers that serve as a testament to the state of the art of civil engineering at the outset of the 21st century as well as to commemorate the ASCE s Sesquicentennial Written by the leading practitioners educators and researchers of civil engineering each of these peer reviewed papers explores a particular aspect of civil engineering knowledge and practice Each paper explores the development of a particular civil engineering specialty including milestones and future barriers constraints and opportunities The papers celebrate the history heritage and accomplishments of the profession in all facets of practice including construction facilities special structures engineering mechanics surveying and mapping irrigation and water quality forensics computing materials geotechnical engineering

hydraulic engineering and transportation engineering While each paper is unique collectively they provide a snapshot of the profession while offering thoughtful predictions of likely developments in the years to come Together the papers illuminate the mounting complexity facing civil engineering stemming from rapid growth in scientific knowledge technological development and human populations especially in the last 50 years An overarching theme is the need for systems level approaches and consideration from undergraduate education through advanced engineering materials processes technologies and design methods and tools These papers speak to the need for civil engineers of all specialties to recognize and embrace the growing interconnectedness of the global infrastructure economy society and the need to work for more sustainable life cycle oriented solutions While embracing the past and the present the papers collected here clearly have an eye on the future needs of ASCE and the civil engineering profession

36 Years GATE Civil Engineering Topic-wise Solved Paper (1984 - 2021) with Detailed Solutions Hemant Jain, Onlineverdan, 2021-07-01 This book of GATE 2022 CIVIL ENGINEERING consists of previous year questions of GATE from 1986 to 2021 containing 36 years paper set The questions are segregated in topic wise format encompassing all subjects such as Engineering Mechanics Strength of Materials Structural Analysis RCC Structures Prestressed Concrete Steel Structures Construction Planning Management Geotechnical Engineering Surveying Fluid Mechanics Environmental Engineering Hydrology and Irrigation The book has questions in decreasing year wise pattern which become it an ideal book for Civil Engineering aspirants

Engineering Mechanics, 1896  
**Examinations Papers**, 1901      Journal of Engineering Mechanics, 2004      Engineering Mechanics--6th Conference  
American Society of Civil Engineers. Engineering Mechanics Division. Specialty Conference, 1987      **Bombay University Handbook** University of Bombay, 1929      **Spons' Dictionary of Engineering, Civil, Mechanical, Military, and Naval**  
Edward Spon, Oliver Byrne, Ernest Spon, Francis N. Spon, 1874      **Engineering Mechanics--7th Conference** American Society of Civil Engineers. Engineering Mechanics Division. Specialty Conference, 1988      **Proceedings ... Papers, Reports, Discussions, Etc., Printed in the Journal of Engineering Education** American Society for Engineering Education, 1896      **Spons Dictionary of Engineering, Civil, Mechanical, Military and Naval; with Technical Terms in French, German, Italian and Spanish Edited by Oliver Byrne**, 1873      **A Manual of Civil Engineering Practice F.** Noel Taylor, 1911      **Bombay University Calendar: Calendar** University of Bombay, 1918      Mechanical Engineering American Society of Mechanical Engineers, 1947      *Spons' Dictionary of Engineering, Civil, Mechanical, Military, and Naval; with Technical Terms in French, German, Italian, and Spanish* Edward Spon, 1874      **Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly** New South Wales. Parliament, 1906 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931      □□□□□□□□□□□□□□  
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The Top Books of the Year Civil Engineering Macanics Paper The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Civil Engineering Macanics Paper : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web how does sheet metal fabrication work there are several different ways to shape sheet metal but they all boil down to two broad categories sheet metal can either be cut or formed as there are many different ways of cutting and forming sheet metal many specific tooling types are needed which can drive up costs

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web the following sections show the methods used to calculate flat patterns for brake bent or die formed sheet metal parts the later sections describe the geometry and instructions for laying out sheet metal developments and transitions also included are calculations for punching requirements of sheet metal parts and tooling requirements for

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web ketiv technologies ketiv ava introduction 1 1 bend parameters used in this document the following parameters and terms are used throughout this document figure 1 basic



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web die engineering layouts and formulas a reference book illustrating and describing the key designs of punches and dies based on precept and formulas sheet metal layout simplified

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web metal fabrication is the creation of metal structures by cutting and bending sheet metal than assembling those formed components into a pre determined product applied metal boatbuilding methods sheetmetal pattern development is basic to rounding out your metalworking layout

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web higher volumes pressing sheet metal is often more cost efficient due to the speed and ability to automate the majority of the process the definitions of bending and pressing can be seen in chapter 3 2 the method of pressing sheet metal also enables more complex geometries and thus makes it possible to eliminate welding of the components

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web sheetmetal layout formulas to calculate the cut sizes locations of bend lines and interior features demonstrated through the fabrication of marine components typical to steel and aluminum pleasure craft fabrication of metallic pressure vessels owen r greulich 2021 11 02 fabrication of metallic pressure vessels a

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web form height to thickness ratio to determine the minimum form height for sheet metal use the following formula  $d \geq 2.5t$  r see below the height can be less but it required secondary operations and is far more costly 5

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web jan 26 2022 if the shop is using a v die to make the flange there is a minimum and maximum length that any flange can be in general the flange needs to be at least 3 though we suggest 4 times longer than the thickness of the material for sheet metal that s 0 120 thick that means a minimum flange length of 0 480 long

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web nov 9 2012 more than one sheet metal bending formula press brake technicians can use various formulas to calculate bend functions for instance in this article we have used the following for outside setback  $ossb = \frac{t}{\sin(\frac{\alpha}{2})}$  tangent degree of bend angle 2 material thickness inside radius