

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

F. Noel Taylor



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

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