

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

University of Bombay

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the University of Bombay text.

Civil Engineering Macanics Paper:

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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--7th Conference American Society of Civil Engineers. Engineering Mechanics Division. Specialty Conference,1988 Bombay University Calendar: Calendar University of Bombay,1918 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 **Proceedings ... Papers, Reports, Discussions, Etc., Printed in the Journal of Engineering Education** American Society for Engineering Education,1896 *A Manual of Civil Engineering Practice* F. Noel Taylor,1911 **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 国政公報 (Japan),1990 **The Principal Professional Papers of Dr. J. A. L. Waddell, Civil Engineer** John Alexander Low Waddell,1905 *Illinois Technograph* ,1943

Civil Engineering Macanics Paper Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Civil Engineering Macanics Paper**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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