

# **OBJECTIVE CIVIL ENGINEERING**

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## **PREFACE**

Since time immemorial, human beings have been busy in constructing something. From mud huts, in the course of time, human beings have moved on to erect houses, palaces, canals, dams, highways, and so on. From huts made of wood and mud to the World's top wonder Taj Mahal of Agra, we have achieved a lot in civil engineering.

Amongst all branches of engineering, the variety and scope of civil engineering is the wide and larger. It is one of the oldest engineering disciplines. It deals with the built environment and can be dated to the first time someone placed a roof over his or her head or laid a tree trunk across a river to make it easier to get across. The credit of creating entire infrastructural framework of a modern nation goes to civil engineers.

Civil Engineering is perhaps the most resourceful branch among all the engineering branches. It is the branch with a lot of multiplicity. It can be considered as a single largest branch among all the engineering branches. Hence in this book entitled Objective Civil Engineering an attempt is made to cover all areas related to it and hundreds of multiple choice questions are given with four options and a correct answer key. The book consists of 16 chapters related to the field of civil engineering which includes: Engg. Mechanics, Building Construction, Surveying and Levelling, Strength of Materials, Theory of Structures, Concrete Structures, Steel Structures, Fluid Mechanics, Geotechnical Engg, Environmental Engg, Transportation Engg, Airport Engg, Docks and Harbor Engg, Tunnel Engg, Water Resources Engg and Construction Management. Each chapter and MCQ questions are neatly arranged and questions are selected keeping in view the emerging need of the students and teachers. This book is useful for UPSC and MPSC examination of Civil Engineering as well as GATE Examination.

I must record my deep sense of indebtedness to Hon'ble Dr. N. J. Pawar, Vice Chancellor, Dr. A. S. Bhoite, Pro Vice Chancellor, Shivaji University, Kolhapur and my friends and well-wishers for their inspiration and support. I am thankful to Dr. Tanaji Kolekar, Dr. Annie John, Dr. Arvind Nawale, Dr. Deepak Nanware, Dr. Gophane, Dr. Arun Patil and Dr. Mane for inspiring and motivating me to bring out this book.

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**-Capt (Dr.) Nitin P. Sonaje**

# CONTENTS

## **Preface**

1	Engineering Mechanics	1
2	Building Construction	8
3	Surveying and Leveling	23
4	Strength of Materials	35
5	Theory of Structures	44
6	Concrete Structures	53
7	Steel Structures	63
8	Fluid Mechanics	72
9	Geotechnical Engineering	82
10	Environmental Engineering	93
11	Transportation Engineering	102
12	Airport Engineering	114
13	Docks and Harbor Engineering	123
14	Tunnel Engineering	129
15	Water Resources Engineering	134
16	Construction Management	145
	Select Bibliography	156

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