

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics First Year Question Papers

For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow
For first-year undergraduate modules in Engineering Mathematics. Develop understanding and maths skills within an engineering context
Modern Engineering Mathematics, 6th Edition by Professors Glyn James and Phil Dyke, draws on

Online Library Engineering Mathematics First Year Question Papers

the teaching experience and knowledge of three co-authors, Matthew Craven, John Searl and Yinghui Wei, to provide a comprehensive course textbook explaining the mathematics required for studying first-year engineering. No matter which field of engineering you will go on to study, this text provides a grounding of core mathematical concepts illustrated with a range of engineering applications. Its other hallmark features include its clear explanations and writing style, and the inclusion of hundreds of fully worked examples and exercises which demonstrate the methods and uses of mathematics in the real world. Woven

Online Library Engineering Mathematics First Year Question Papers

into the text throughout, the authors put concepts into an engineering context, showing you the relevance of mathematical techniques and helping you to gain a fuller appreciation of how to apply them in your studies and future career. Also available with MyLab Math MyLab™ is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools and a flexible platform, MyLab personalizes the learning experience and improves results for each student. MyLab Math for this textbook has over 1150 questions to assign to your students,

Online Library Engineering Mathematics First Year Question Papers

including exercises requiring different types of mathematics applications for a variety of industry types. Learn more about MyLab Math. Note: You are purchasing a standalone product; MyLab Math does not come packaged with this content.

Students, if interested in purchasing this title with MyLab Math, ask your instructor to confirm the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab Math search for: 129233536X / 9781292335360 Modern Engineering Mathematics 6th Edition plus MyLab

Online Library Engineering Mathematics First Year Question Papers

Math with eText -- Access Card Package Package consists of: 1292253495 / 9781292253497

Modern Engineering Mathematics 6th Edition

1292253525 / 9781292253527 MyLab Math with Pearson eText -- Access Card -- for Modern

Engineering Mathematics 6th Edition Pearson, the world's learning company.

Engineering Mathematic

This book provides leading platform for GATE aspirants to practice and hone their skills required to gain the best score in the examination. It includes more than 25 previous years' GATE questions segregated topic-wise supported by

Online Library Engineering Mathematics First Year Question Papers

detailed step-wise solutions for all. Besides, the book presents the exam analysis at the beginning of every unit which will enable better understanding of the subject. The questions in the chapters are divided according to their marks, hence emphasizing on their importance. This, in turn, will help the students to get an idea about the pattern and weightage of these questions that appeared in the GATE exam every year Features:

- Includes around 25 years' GATE questions arranged chapter-wise
- Detailed solutions for better understanding
- Includes the latest GATE solved question papers with detailed
- analysis •

Online Library Engineering Mathematics First Year Question Papers

Comprehensively revised and updated Table of Contents: Preface Syllabus: Engineering Mathematics Important Tips for GATE Preparation Exam Analysis Chapter 1: Linear Algebra Chapter 2: Calculus Chapter 3: Differential Equations Chapter 4: Complex Variables Chapter 5: Probability and Statistics Chapter 6: Numerical Methods Chapter 7: Transform Theory Chapter 8: Vector Calculus Chapter 9: Fourier Series
A Textbook Of Engineering Mathematics-I : (As Per The New Syllabus, B.Tech. I Year Of U.P. Technical University)
Engineering Mathematics Volume - III (Statistical

Online Library Engineering Mathematics First Year Question Papers

and Numerical Methods) (For 1st Year - 2nd Semester of JNTU, Hyderabad)

Sessional papers. Inventory control record 1

This book is a sequel to the author's Engineering Physics Part I and is written to address the course curriculum in Engineering Physics-II (Course Code EAS-102) of the B.Tech syllabus of the Uttar Pradesh Technical University. The book is designed to meet the needs of the first-year undergraduate students of all branches of engineering. It provides a sound understanding of the important phenomena in physics.

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics - liNew Age International

Students today enter engineering courses with a wide range of mathematical skills, due to the many different pre-university qualifications studied. Bill Cox's aim is for students to gain a thorough understanding of the maths they are studying, by first strengthening their background in the essentials of each topic. His approach allows a unique self-paced study style, in which students Review their strengths and weaknesses through self-administered diagnostic tests, then focus on Revision where

Online Library Engineering Mathematics First Year Question Papers

they need it, to finally Reinforce the skills required. Understanding Engineering Mathematics is structured around a highly successful 'transition' maths course at Aston University which has demonstrated a clear improvement in students' achievement in mathematics, and has been commended by QAA Subject Review and engineering accreditation reports. A core undergraduate text with a unique interactive style that enables students to diagnose their strengths and weaknesses and focus their efforts where needed Ideal for self-paced self-study and tutorial work, building from

Online Library Engineering Mathematics First Year Question Papers

an initially supportive approach to the development of independent learning skills Lots of targeted examples and exercises

This is very useful to all engineering national and international students because lot of new methods are introducing this book. so, students are very easily understanding any critical problems. This book is very excellent.

Engineering Mathematics-1

Engineering Mathematics - III:

Understanding Engineering Mathematics

Engineering Mathematics

Through four previous editions of

Online Library Engineering Mathematics First Year Question Papers

Advanced Engineering Mathematics with MATLAB, the author presented a wide variety of topics needed by today's engineers. The fifth edition of that book, available now, has been broken into two parts: topics currently needed in mathematics courses and a new stand-alone volume presenting topics not often included in these courses and consequently unknown to engineering students and many professionals. The overall structure of this new book

Online Library Engineering Mathematics First Year Question Papers

consists of two parts: transform methods and random processes. Built upon a foundation of applied complex variables, the first part covers advanced transform methods, as well as z-transforms and Hilbert transforms--transforms of particular interest to systems, communication, and electrical engineers. This portion concludes with Green's function, a powerful method of analyzing systems. The second portion presents random processes--processes that more

Online Library Engineering Mathematics First Year Question Papers

accurately model physical and biological engineering. Of particular interest is the inclusion of stochastic calculus. The author continues to offer a wealth of examples and applications from the scientific and engineering literature, a highlight of his previous books. As before, theory is presented first, then examples, and then drill problems. Answers are given in the back of the book. This book is all about the future: The purpose of this book is not only to

Online Library Engineering Mathematics First Year Question Papers

educate the present generation of engineers but also the next. "The main strength is the text is written from an engineering perspective. The majority of my students are engineers. The physical examples are related to problems of interest to the engineering students."

--Lea Jenkins, Clemson University

A Textbook of Engineering Mathematics

**** How can academics carve out new and effective ways of working with students against a background of constant change***

Online Library Engineering Mathematics First Year Question Papers

and policy pressure? * How can university teachers both enhance student learning and realize their own educational values? * What might be the shape of a new professionalism in university teaching? At the heart of this book is a small group of academics from very different disciplines making sense of their teaching situations. We witness each of their struggles and celebrations in designing a new course, engaging a large first year class, introducing a

Online Library Engineering Mathematics First Year Question Papers

mentoring programme, nurturing independent learning through project work, using debates to develop students' critical thinking, and evaluating the success of their teaching. This book is the story of a higher education project, and central to the story are the attempts of university teachers to enact a critical professionalism in their everyday lives in teaching and learning; and also their development of a shared and collaborative dialogue. Each of the team

Online Library Engineering Mathematics First Year Question Papers

seeks not only to improve their practice of teaching but also to explore amongst themselves what kind of professional they want to be and how to realize it in their work with students. Reconstructing Professionalism in University Teaching reveals how academics working together on researching their own teaching can both improve their students' learning and start to redefine their own professional roles.

Engineering Mathematics-I

Online Library Engineering Mathematics First Year Question Papers

**Engineering Mathematics Volume - II
(Mathematical Methods) (For 1st Year,
1st Semester of JNTU, Kakinada)
Introduction to Engineering Mathematics
Vol-1 (GBTU)
Engineering Mathematics Through
Applications
Engineering Mathematics with Examples
and Applications**

Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed

Online Library Engineering Mathematics First Year Question Papers

in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

This book has received very good response

Online Library Engineering Mathematics First Year Question Papers

from students and teachers within the country and abroad alike. Its previous edition exhausted in a very short time. I place on record my sense of gratitude to the students and teachers for their appreciation of my work, which has offered me an opportunity to bring out this revised Eighteenth Edition. Due to the demand of students a chapter on Linear Programming as added. A large number of new examples and problems selected from the latest question papers of various engineering examinations held recently have been included to enable the students to understand the latest trend.

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics is a comprehensive pre-degree maths text for vocational courses and foundation modules at degree level in the U.K.. John Bird's approach, based on numerous worked examples supported by problems, is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to the core mathematics needed for engineering studies and practice. Throughout the book assessment papers are provided that are ideal for use as

Online Library Engineering Mathematics First Year Question Papers

tests or homework. These are the only problems where answers are not provided in the book. Full worked solutions are available to lecturers only as a free download from the Newnes website: www.newnespress.com

Engineering Mathematics Vol-1

Pearson New International Edition

Reconstructing Professionalism In University Teaching

Engineering Mathematics Volume III (Linear Algebra and Vector Calculus) (For 1st Year, 2nd Semester of JNTU, Kakinada)

Engineering Matematics

Now in its sixth edition, Higher Engineering

Online Library Engineering Mathematics First Year Question Papers

Mathematics is an established textbook that has helped many thousands of students to gain exam success. John Bird's approach is ideal for students from a wide range of academic backgrounds, and can be worked through at the student's own pace. Mathematical theories are examined in the simplest of terms, supported by practical examples and applications from a wide variety of engineering disciplines, to ensure that the reader can apply theory to practice. This extensive and thorough topic coverage makes this an ideal book for a range of university degree modules, foundation degrees, and HNC/D units. This new

Online Library Engineering Mathematics First Year Question Papers

edition of Higher Engineering Mathematics has been further extended with topics specifically written to help first year engineering degree students and those following foundation degrees. New material has been added on logarithms and exponential functions, binary, octal and hexadecimal numbers, vectors and methods of adding alternating waveforms. This book caters specifically for the engineering mathematics units of the Higher National Engineering schemes from Edexcel, including the core unit Analytical methods for Engineers, and two optional units: Further Analytical Methods for Engineers and

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics, common to both the electrical/electronic engineering and mechanical engineering pathways. A mapping grid is included showing precisely which topics are required for the learning outcomes of each unit. Higher Engineering Mathematics contains examples, supported by 900 worked problems and 1760 further problems contained within exercises throughout the text. In addition, 19 revision tests, which are available to use as tests or as homework are included at regular intervals.

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive

Online Library Engineering Mathematics First Year Question Papers

classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

Birgit Griese presents MP2-Math/Plus, a support project for first-year students in engineering at Ruhr-

Online Library Engineering Mathematics First Year Question Papers

Universität Bochum that aims at preventing unnecessary drop-out. Conceptualisation and development of the project follow a design research approach according to Gravemeijer, Cobb, and van den Akker. The interventions focus on learning strategies which are collected in a pre-post design with the aid of the LIST questionnaire by Wild and Schiefele. These and other data are utilised for the evaluation of MP2-Math/Plus. The results confirm the adaptations of the project procedures in successive cycles, stress the importance of effort and motivation and assess the success of the project.

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics with Examples and Applications provides a compact and concise primer in the field, starting with the foundations, and then gradually developing to the advanced level of mathematics that is necessary for all engineering disciplines. Therefore, this book's aim is to help undergraduates rapidly develop the fundamental knowledge of engineering mathematics. The book can also be used by graduates to review and refresh their mathematical skills. Step-by-step worked examples will help the students gain more insights and build sufficient confidence in engineering mathematics and

Online Library Engineering Mathematics First Year Question Papers

problem-solving. The main approach and style of this book is informal, theorem-free, and practical. By using an informal and theorem-free approach, all fundamental mathematics topics required for engineering are covered, and readers can gain such basic knowledge of all important topics without worrying about rigorous (often boring) proofs. Certain rigorous proof and derivatives are presented in an informal way by direct, straightforward mathematical operations and calculations, giving students the same level of fundamental knowledge without any tedious steps. In addition, this practical approach provides

Online Library Engineering Mathematics First Year Question Papers

over 100 worked examples so that students can see how each step of mathematical problems can be derived without any gap or jump in steps. Thus, readers can build their understanding and mathematical confidence gradually and in a step-by-step manner. Covers fundamental engineering topics that are presented at the right level, without worry of rigorous proofs Includes step-by-step worked examples (of which 100+ feature in the work) Provides an emphasis on numerical methods, such as root-finding algorithms, numerical integration, and numerical methods of differential equations Balances

Online Library Engineering Mathematics First Year Question Papers

theory and practice to aid in practical problem-solving in various contexts and applications

Higher Engineering Mathematics

Advanced Engineering Mathematics

Essentials Engineering Mathematics

Conceptualisation, Development, and Evaluation of MP2-MathePlus

First published in 1992, Essentials of Engineering Mathematics is a widely popular reference ideal for self-study, review, and fast answers to specific questions. While retaining the style and content that made the first edition so successful, the second

Online Library Engineering Mathematics First Year Question Papers

edition provides even more examples, new material, and most importantly, an introduction to using two of the most prevalent software packages in engineering: Maple and MATLAB. Specifically, this edition includes: Introductory accounts of Maple and MATLAB that offer a quick start to using symbolic software to perform calculations, explore the properties of functions and mathematical operations, and generate graphical output New problems involving the mean value theorem for derivatives Extension of the account of stationary points of functions of two variables The concept of the

Online Library Engineering Mathematics First Year Question Papers

direction field of a first-order differential equation
Introduction to the delta function and its use with the Laplace transform The author includes all of the topics typically covered in first-year undergraduate engineering mathematics courses, organized into short, easily digestible sections that make it easy to find any subject of interest. Concise, right-to-the-point exposition, a wealth of examples, and extensive problem sets at the end each chapter--with answers at the end of the book--combine to make *Essentials of Engineering Mathematics, Second Edition* ideal as a supplemental textbook, for self-

Online Library Engineering Mathematics First Year Question Papers

study, and as a quick guide to fundamental concepts and techniques.

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

Online Library Engineering Mathematics First Year Question Papers

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

Online Library Engineering Mathematics First Year Question Papers

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

Online Library Engineering Mathematics First Year Question Papers

and Engineering Hydrology, Highway Engineering, General Aptitude, Crack Paper (1-3).

□ 12 Years Solved Papers 2010-2021 (Year-wise) with detailed explanations □ 2 Sample Question Papers □ Smart Answer key with detailed explanations. □ Blended Learning (Print and online support) □ Tips & Tricks to crack the Exam in first attempt □ GATE Qualifying Cut-offs and Highest Marks of 2021 and 2020- Steam-wise □ GATE Engineering Mathematics 2021 to 2017 □ Trend Analysis □ GATE Score Calculation □ Mind Maps and Mnemonics

Online Library Engineering Mathematics First Year Question Papers

For cracking any competitive exam one need to have clear guidance, right kind of study material and thorough practice. When the preparation is done for the exams like JEE Main and NEET one need to have clear concept about each and every topic and understanding of the examination pattern are most important things which can be done by using the good collection of Previous Years' Solved Papers.

Chapterwise Topicwise Solved Papers

MATHEMATICS for Engineering Entrances is a master collection of exams questions to practice for JEE Main & Advanced 2020, which have been

Online Library Engineering Mathematics First Year Question Papers

consciously revised as per the latest pattern of exam. It carries 15 Years of Solved Papers [2019-2005] in both Chapterwise and topicwise manner by giving the full coverage to syllabus. This book is divided into parts based on Class XI and XII NCERT syllabus covering each topic. This book gives the complete coverage of Questions asked in JEE Main & Advanced, AIEEE, IIT JEE & BITSAT, UPSEE, MANIPAL, EAMCET, WB JEE, etc., Thorough practice done from this book will the candidates to move a step towards their success.

TABLE OF CONTENT Sets, Relations and

Online Library Engineering Mathematics First Year Question Papers

Functions, Complex Numbers, Equations and Inequalities, Sequences and Series, Permutations and Combinations, Binomial Theorem and Mathematical Induction, Matrices and Determinants, Trigonometric Identities and Equations, Inverse Trigonometric Functions, Properties of Triangle, Heights and Distances, Rectangular Cartesian Coordinates, Straight Line and Pair of Straight Lines, Circle and System of Circles, Conic Section, Limits, Continuity and Differentiability, Differentiation, Applications of Derivatives, Indefinite Integrals, Definite Integrals, Applications of Integrals,

Online Library Engineering Mathematics First Year Question Papers

Differential Equations, Vector Algebra, Three Dimensional Geometry, Statistics, Probability, Mathematical Logic and Boolean Algebra, Linear Programming, Statics and Dynamics, Miscellaneous, Questions Asked in JEE Main 2015, Solved Papers 2016 (JEE Main, BITSAT, AP EAMCET, TS EAMCET, GGSIPU), Solved Papers 2017 (JEE Main & Advanced, BITSAT, VIT & WBJEE), Solved Papers 2018 (JEE Main & Advanced, BITSAT & WBJEE), Solved Papers 2019 (JEE Main & Advanced, BITSAT & WBJEE).
GATE 12 Year-wise Solved Paper (2010 to 2021)

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics

Modern Engineering Mathematics 6th Edition PDF
Ebook

Engineering Mathematics □ Volume li

Engineering Mathematics - li

Engineering Mathematics-III has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced mix of theory and solved problems,

Online Library Engineering Mathematics First Year Question Papers

focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the students.

This popular, world-wide selling textbook teaches engineering mathematics in a step-by-step fashion and uniquely through engineering examples and exercises which apply the techniques right from their introduction.

This contextual use of mathematics is highly motivating, as with every topic and each new page students see the importance and

Online Library Engineering Mathematics First Year Question Papers

relevance of mathematics in engineering. The examples are taken from mechanics, aerodynamics, electronics, engineering, fluid dynamics and other areas. While being general and accessible for all students, they also highlight how mathematics works in any individual's engineering discipline. The material is often praised for its careful pace, and the author pauses to ask questions to keep students reflecting. Proof of mathematical results is kept to a minimum. Instead the book develops learning by investigating results, observing patterns, visualizing graphs and answering questions

Online Library Engineering Mathematics First Year Question Papers

using technology. This textbook is ideal for first year undergraduates and those on pre-degree courses in Engineering (all disciplines) and Science. New to this Edition: - Fully revised and improved on the basis of student feedback - New sections - More examples, more exam questions - Vignettes and photos of key mathematicians

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics

Civil Engineering Solved Papers GATE 2022

A Second Course with MatLab

Chapterwise Topicwise Solved Papers

Mathematics for Engineering Entrances 2020

Engineering Mathematics Volume - II

(Numerical Methods and Complex Variables)

(For 1st Year, 1st Semester of JNTU,

Kakinada)

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong

Online Library Engineering Mathematics First Year Question Papers

understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement. Engineering Mathematics (Conventional and Objective Type) completely covers the subject of

Online Library Engineering Mathematics First Year Question Papers

Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more than 85 published books.

Engineering Mathematics, 4e, is designed for the first semester undergraduate students of B.E/ B. Tech courses. In their trademark student friendly style, the authors have endeavored to provide an in-depth understanding of the concepts. Supported

Online Library Engineering Mathematics First Year Question Papers

by a variety of solved examples, with reference to appropriate engineering applications, the book delves into the fundamental and theoretical concepts of Differential Calculus, Functions of several variables, Integral Calculus, Multiple Integrals, and Differential equations. Features:

- 450+ solved examples
- 450+ exercises with answers
- 250+ Part A questions with answers
- Plenty of hints for problems
- Includes a free book containing FAQs

Table of Contents: Preface About the Authors Chapter 1) Differential Calculus Chapter 2) Functions of Several Variables Chapter 3)

Online Library Engineering Mathematics First Year Question Papers

Integral Calculus Chapter 4) Multiple Integrals
Chapter 5) Differential Equations

The tenth edition of this bestselling text includes examples in more detail and more applied exercises; both changes are aimed at making the material more relevant and accessible to readers. Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems. It goes into the following topics at great depth differential equations, partial differential equations, Fourier analysis, vector analysis, complex analysis, and linear

Online Library Engineering Mathematics First Year Question Papers

algebra/differential equations.

Engineering Maths

Teachers and Learners in Action

Engineering Mathematics Vol-1

GATE 2020 for Engineering Mathematics | 25

Previous Years' Solved Question Papers | Also for

GAIL, BARC, HPCL | By Pearson