

First Terminal Examination 2014 - 2015

Class – XI

Subject – Mathematics

Time : 3 Hours

Max. Marks : 100

General Instructions :

1. All questions are compulsory.
2. The question paper consists of 26 questions.
3. This question paper is divided into three sections A, B and C.
4. Section A comprises of 6 questions of one mark each
5. Section B comprises of 13 questions of four marks each
6. Section C comprises of 7 questions of 6 marks each
7. There is no overall choice. However, internal choice has been provided in 4 questions of 4 marks each and 2 questions of 6 marks each. You have to attempt only one of the alternatives in all such questions.

SECTION – 'A'

(1×6=6)

1. Let $A = \{1, 2\}$ and $B = \{3, 4\}$. Find the number of relations from A to B.
2. Write down the power set of A, where $A = \{\phi, \{\phi\}\}$.
3. Find x and y if $(2x + y, x - y) = (8, 3)$.
4. Simplify :

$$\frac{\cos x}{\sin\left(\frac{\pi}{2} + x\right)} + \frac{\sin(-x)}{\sin(\pi + x)} - \frac{\tan\left(\frac{\pi}{2} + x\right)}{\cot x}$$

5. Solve :

$$\frac{5 - 2x}{3} \leq \frac{x}{6} - 5 \text{ for } x \in \mathbb{R}.$$

6. Express :

$$\left\{i^{17} - \left(\frac{1}{i}\right)^{34}\right\}^2 \text{ in the form of } a + ib$$

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Board,2024-01-25 Description of the product 100% updated with Fully Solved April September 2023 Papers Concept Clarity with detailed explanations of 2014 to 2023 Papers Extensive Practice with 1200 Questions and Two Sample Question Papers Crisp Revision with Concept Based Revision Notes Mind Maps Mnemonics Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with 5 Year wise 2019 2023 Trend Analysis empowering students to be 100% exam ready **Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with Past**

Questions Disha Experts,2020-02-04 *Parliamentary Papers* Great Britain. Parliament. House of Commons,1881

Sand, Snow, and Stardust Gretchen Heefner,2025-05-05 A vivid tour of US military efforts to understand survive and command harsh environments worldwide and beyond Deserts the Arctic outer space these extreme environments are often seen as inhospitable places at the edges of our maps But from the 1940s through the 1960s spurred by the diverse and unfamiliar regions the US military had navigated during World War II the United States defense establishment took a keen interest in these places dispatching troops to the Aleutian Islands North Africa the South Pacific and beyond To preserve the country s status as a superpower after the war to pave runways and build bridges engineers had to understand and then conquer dunes permafrost and even the surface of the moon *Sand Snow and Stardust* explores how the US military generated a new understanding of these environments and attempted to master them intending to cement America s planetary power Operating in these regions depended as much on scientific and cultural knowledge as on military expertise and technology From General George S Patton learning the hard way that the desert is not always hot to the challenges of constructing a scientific research base under the Arctic ice to the sheer implausibility of modeling Martian environments on Earth Gretchen Heefner takes us on a wry expedition into the extremes and introduces us to the people who have shaped our insight into these extraordinary environments Even decades after the first manned space flight plans for human space exploration and extraplanetary colonization are still based on what we know about stark habitats on Earth An entertaining survey of the relationship between environmental history and military might *Sand Snow and Stardust* also serves as a warning about the further transformation of the planet whether through desertification melting ice caps or attempts to escape it entirely **Information—Consciousness—Reality** James B. Glattfelder,2019-04-10 This open access book

chronicles the rise of a new scientific paradigm offering novel insights into the age old enigmas of existence Over 300 years ago the human mind discovered the machine code of reality mathematics By utilizing abstract thought systems humans began to decode the workings of the cosmos From this understanding the current scientific paradigm emerged ultimately discovering the gift of technology Today however our island of knowledge is surrounded by ever longer shores of ignorance

Science appears to have hit a dead end when confronted with the nature of reality and consciousness In this fascinating and accessible volume James Glattfelder explores a radical paradigm shift uncovering the ontology of reality It is found to be information theoretic and participatory yielding a computational and programmable universe The Wiley Handbook of Cognition and Assessment Andre A. Rupp, Jacqueline P. Leighton, 2016-11-21 This state of the art resource brings together the most innovative scholars and thinkers in the field of testing to capture the changing conceptual methodological and applied landscape of cognitively grounded educational assessments Offers a methodologically rigorous review of cognitive and learning sciences models for testing purposes as well as the latest statistical and technological know how for designing scoring and interpreting results Written by an international team of contributors at the cutting edge of cognitive psychology and educational measurement under the editorship of a research director at the Educational Testing Service and an esteemed professor of educational psychology at the University of Alberta as well as supported by an expert advisory board Covers conceptual frameworks modern methodologies and applied topics in a style and at a level of technical detail that will appeal to a wide range of readers from both applied and scientific backgrounds Considers emerging topics in cognitively grounded assessment including applications of emerging socio cognitive models cognitive models for human and automated scoring and various innovative virtual performance assessments **7 Mantra To Excel In Exams** PREM

P.BHALLA, 2012-11-15 Exams play a major role in the lives of not just during academic pursuits but later in the career too Although youngsters are taught a variety of subjects to equip them for life in general no school teaches them how to excel in exams Most learn only through trial and error Others remain clueless about how to excel in exams throughout their lives But this crucial information can ensure that even those with average IQ excel in exams This book contains simple and practical tips and guidelines on how to tap your full potential and give off your best during exams An invaluable guide for all students and adults due to appear in exams As well as for parents who wish to ensure their children do well and secure maximum marks The book offers simple guidelines on Improving memory Maximising Concentration Adopting effective study habits and techniques Developing proper reading listening language and communication skills Doing well in different kinds of exams Understanding what the examiner wants Overcoming exam anxiety and tension v publishers **Yearbook of**

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resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations **The Global Achievement Gap** Tony Wagner,2014-03-11 Despite the best efforts of educators our nation s schools are dangerously obsolete Instead of teaching students to be critical thinkers and problem solvers we are asking them to memorize facts for multiple choice tests This problem isn t limited to low income school districts even our top schools aren t teaching or testing the skills that matter most in the global knowledge economy Our teens leave school equipped to work only in the kinds of jobs that are fast disappearing from the American economy Meanwhile young adults in India and China are competing with our students for the most sought after careers around the world Education expert Tony Wagner has conducted scores of interviews with business leaders and observed hundreds of classes in some of the nation s most highly regarded public schools He discovered a profound disconnect between what potential employers are looking for in young people today critical thinking skills creativity and effective communication and what our schools are providing passive learning environments and uninspired lesson plans that focus on test preparation and reward memorization He explains how every American can work to overhaul our education system and he shows us examples of dramatically different schools that teach all students new skills In addition through interviews with college graduates and people who work with them Wagner discovers how teachers parents and employers can motivate the generation to excellence An education manifesto for the twenty first century The Global Achievement Gap is provocative and inspiring It is essential reading for parents educators business leaders policy makers and anyone interested in seeing our young people succeed as employees and citizens For additional information about the author and the book please go to a href <http://www.schoolchange.org>

Learning Microeconometrics with R Christopher P. Adams,2020-12-29 This book provides an introduction to the field of microeconometrics through the use of R The focus is on applying current learning from the field to real world problems It uses R to both teach the concepts of the field and show the reader how the techniques can be used It is aimed at the general reader with the equivalent of a bachelor s degree in economics statistics or some more technical field It covers the standard tools of microeconometrics OLS instrumental variables Heckman selection and difference in difference In addition it introduces bounds factor models mixture models and empirical Bayesian analysis Key Features Focuses on the assumptions underlying the algorithms rather than their statistical properties Presents cutting edge analysis of factor models and finite mixture models Uses a hands on approach to examine the assumptions made by the models and when the models fail to estimate accurately Utilizes interesting real world data sets that can be used to analyze important microeconomic problems Introduces R programming concepts throughout the book Includes appendices that discuss some of the standard statistical concepts and R programming used in the book

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