

COMMON QUARTERLY EXAMINATION - SEPTEMBER 2019

Standard - 12

PART - III - MATHEMATICS

Time Allowed: 2.30 Hours

Maximum Marks: 90

Instructions: 1. Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.

2. Use Blue or Black ink to write and underline and pencil to draw diagrams.

PART - I

Note: 1) Answer all the questions.

$$20 \times 1 = 20$$

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- 1) The rank of the matrix $\begin{bmatrix} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ -1 & -2 & -3 & -4 \end{bmatrix}$ is
 - a) 2
 - b) 1
 - c) 3
 - d) 4
- 2) If $0 \leq \theta \leq \pi$ and the system of equations $x + (\sin \theta)y - (\cos \theta)z = 0$, $(\cos \theta)x - y + z = 0$, $(\sin \theta)x + y - z = 0$ has a non trivial solution then θ is
 - a) $\frac{5\pi}{6}$
 - b) $\frac{\pi}{4}$
 - c) $\frac{2\pi}{3}$
 - d) $\frac{3\pi}{4}$
- 3) If $|z_1| = 1$, $|z_2| = 2$, $|z_3| = 3$ and $|9z_1z_2 + 4z_1z_3 + z_2z_3| = 12$ then the value of $|z_1 + z_2 + z_3|$ is
 - a) 2
 - b) 1
 - c) 4
 - d) 3
- 4) Which one of the points i , $-2+i$, 2 and 3 is farthest from the origin?
 - a) 3
 - b) $-2+i$
 - c) i
 - d) 2
- 5) If α , β and γ are the zeros of $x^3 + px^2 + qx + r$, then $\sum \frac{1}{\alpha}$ is
 - a) $\frac{q}{r}$
 - b) $-\frac{p}{r}$
 - c) $-\frac{q}{r}$
 - d) $-\frac{q}{p}$
- 6) The range of $\sec^{-1}x$ is
 - a) $[-\pi, \pi] \setminus \left\{ \frac{\pi}{2} \right\}$
 - b) $[0, \pi] \setminus \left\{ \frac{\pi}{2} \right\}$
 - c) $(0, \pi) \setminus \left\{ \frac{\pi}{2} \right\}$
 - d) $(-\pi, \pi) \setminus \left\{ \frac{\pi}{2} \right\}$
- 7) If $P(x, y)$ be any point on $16x^2 + 25y^2 = 400$ with foci $F_1(3, 0)$ and $F_2(-3, 0)$ then $PF_1 + PF_2$ is
 - a) 6
 - b) 8
 - c) 12
 - d) 10
- 8) If the length of the perpendicular from the origin to the plane $2x + 3y + \lambda z = 1$, $\lambda > 0$ is $\frac{1}{5}$, then the value of λ is
 - a) 0
 - b) 1
 - c) $2\sqrt{3}$
 - d) $3\sqrt{2}$
- 9) The system of linear equations $x + y + z = 2$, $2x + y - z = 3$, $3x + 2y + kz = 4$ has a unique solution if
 - a) $k \neq 0$
 - b) $-1 < k < 1$
 - c) $-2 < k < 2$
 - d) $k = 0$

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Arshad Iqbal



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Are Our Children Ready to Learn? United States. Congress. Senate. Committee on Labor and Human Resources, 1999 These hearing transcripts present testimony before the Committee on Labor and Human Resources of the 105th Congress on early childhood education and related services Participants provided different perspectives on early education focusing on the academic achievement of American students especially in comparison to students in other countries the importance of early childhood longitudinal studies the role of child care centers and improving early childhood educators qualifications Speakers included Senators James Jeffords Vermont Tim Hutchinson Arkansas Susan Collins Maine and Jack Reed Rhode Island Providing expert testimony were the commissioner of the National Center for Education Statistics and the executive director of the Child Care Action Campaign Witnesses indicated that basic measures from the National Household Education Survey document tremendous variation in the skills children bring to kindergarten Studies of child care in the United States report that the vast majority of centers provide poor to mediocre care One participant compared U.S. child care programs to early education programs in France noting differences in caregiver qualifications and compensation as well as other programmatic differences This witness also recommended accelerating the move toward universal prekindergarten programming and increasing accreditation efforts A report on data needs for early childhood development and learning readiness is appended KB

Annual Evaluation Report Title I, 1975 Gender and Fair Assessment Warren W. Willingham, Nancy S. Cole, 2013-12-16 There have been many important changes in the participation of women and men in American society over the past quarter century Tests play a role in those changes by providing evidence of the diverse achievement and proficiency of women and men They aid the learning process and reflect inequalities in opportunity to learn and participate In addition they provide useful information in considering what alternatives in education and work make most sense for individuals and influence views about groups of students educational programs and a wide range of issues For all of these reasons it is important that tests assess fairly and reflect accurately the ways young people are and are not achieving as well as desired The test performance of women and men is a research topic of historical interest and has received much attention in recent years Because of this increased interest there is a great deal of new research and data available The purpose of the study presented in this volume was to review this new information with two objectives in mind to clarify patterns of gender difference and similarity in test performance and related achievements and to see what implications those findings might have for fair assessment and as a corollary examine the assessment process as a possible source of gender differences This study is interested in tests used in education to assess

developed knowledge and skill In order to gain a broader view of gender similarity and difference the contributors looked at other types of measures and other characteristics of young women and men Their hope is to contribute to a firmer basis for insuring fairness in tests an objective which is particularly important as the field moves increasingly to new forms of assessment in which there is less experience

Are Our Children Ready to Learn? James M. Jeffords, 2000-05 Senate hearing on the Elementary Faith Wohl Executive Director Child Care Action Campaign New York NY *School Resources, the Achievement Gap, and the Law* David J. Armor, John R. Munich, Aron Malatinszky, 2024-01-12 This book offers a novel and up to date exploration of the common belief that increasing conventional school resources will increase academic achievement and help close gaps between various advantaged and disadvantaged students Taking the scholarship around this question such as James S Coleman s 1965 report on the Equality of Educational Opportunity as a starting point it brings in an extensive range of contemporary data sources and statistical analysis to offer an updated robust and considered review of the issue Moving beyond these empirical questions it also explores how these empirical findings have been utilized in education adequacy litigation discussing the evolving law of adequacy cases while explaining the challenges of introducing complex data and analyses within a litigation framework Judges typically have little experience with the complexity of modern education data and the analyses required to draw sound inferences It will thus be of interest to scholars researchers and faculty and jurists with expertise or interest in education policy the economics and sociology of education and public policy

Roadmap to 8th Grade Math, New York Edition Karen Lurie, 2003-11-11 If Students Need to Know It It s in This Book This book develops the Math skills of eighth graders It builds skills that will help them succeed in school and on the New York State test Why The Princeton Review We have more than 20 years of experience helping students master the skills needed to excel on standardized tests Each year we help more than 2 million students score higher and earn better grades We Know the New York State Testing Program Our experts at The Princeton Review have analyzed the New York State test and this book provides the most up to date thoroughly researched practice possible for the Grade 8 Mathematics test We break down the test into individual skills to familiarize students with the test s structure while increasing their overall skill level We Get Results We know what it takes to succeed in the classroom and on tests This book includes strategies that are proven to improve student performance We provide content review detailed lessons and practice exercises modeled on the skills tested by the New York State Grade 8 Mathematics test engaging puzzles and word problems 2 complete practice New York State Math tests

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Table of Contents Grade 12 Math Exam Papers

1. Understanding the eBook Grade 12 Math Exam Papers
 - The Rise of Digital Reading Grade 12 Math Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Math Exam Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 12 Math Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Math Exam Papers
 - Personalized Recommendations
 - Grade 12 Math Exam Papers User Reviews and Ratings
 - Grade 12 Math Exam Papers and Bestseller Lists
5. Accessing Grade 12 Math Exam Papers Free and Paid eBooks
 - Grade 12 Math Exam Papers Public Domain eBooks
 - Grade 12 Math Exam Papers eBook Subscription Services
 - Grade 12 Math Exam Papers Budget-Friendly Options

6. Navigating Grade 12 Math Exam Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 Math Exam Papers Compatibility with Devices
 - Grade 12 Math Exam Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 Math Exam Papers
 - Highlighting and Note-Taking Grade 12 Math Exam Papers
 - Interactive Elements Grade 12 Math Exam Papers
8. Staying Engaged with Grade 12 Math Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 Math Exam Papers
9. Balancing eBooks and Physical Books Grade 12 Math Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 Math Exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12 Math Exam Papers
 - Setting Reading Goals Grade 12 Math Exam Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12 Math Exam Papers
 - Fact-Checking eBook Content of Grade 12 Math Exam Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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