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

 Answer all the questions. Note:

 $20 \times 1 = 20$

- 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

 If 0 ≤ θ ≤ π and the system of equations x+(sinθ)y-(cosθ)z = 0, (cosθ)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, +Z, +Z, | is b) 1
- 4) Which one of the points i, -2+i, 2 and 3 is farthest from the origin? (b) -2+i
- 5) If α , β and γ are the zeros of x^3+px^2+qx+r , then $\Sigma \frac{1}{\alpha}$ is

a) = b) = c) = d) = d

6) The range of sec⁻¹x is

a) $\left[-\pi,\pi\right]\setminus\left\{\frac{\pi}{2}\right\}$ b) $\left[0,\pi\right]\setminus\left\{\frac{\pi}{2}\right\}$ c) $\left(0,\pi\right)\setminus\left\{\frac{\pi}{2}\right\}$ d) $\left(-\pi,\pi\right)\setminus\left\{\frac{\pi}{2}\right\}$

- 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, +PF, is b) 8 (c) 12a) 6
- 8) If the length of the perpendicular from the origin to the plane $2x+3y+\lambda z=1$, $\lambda > 0$ is $\frac{1}{2}$, then the value of λ is

a)0

b1 1.

9) The system of linear equations x+y+z=2, 2x+y-z=3, 3x+2y+kz=4 has a unique solution if b) -1 < k < 1 c) -2 < k < 2 d) k = 0

a) $k \neq 0$

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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 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 Roadmap to 8th Grade Math, New York Edition Karen Lurie, 2003-11-11 If Students Need to Know It It s in policy 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 ACT Total Prep 2022 Kaplan Test Prep, 2021-09-07 Always study with the complete practice New York State Math tests most up to date prep Look for ACT Total Prep 2023 ISBN 9781506282084 on sale June 7 2022 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitles included with the product ACT Prep Plus 2022 Kaplan Test Prep, 2021-09-07 Always study with the most up to date prep Look for ACT Prep Plus 2023 ISBN 9781506282107 on sale June 7 2022 Publisher's Note Products purchased from

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