

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 75

Attempt all the questions.

Group 'A'

[1×1=1]

Rewrite the correct options of each question in your answer sheet.

- The property of cube roots of unity where ω is the cube root of unity is.
A) $1 + \omega + \omega^2 = 0$ B) $\omega^3 + 1 = 0$ C) $\omega = -\omega^2$ D) $\omega + \omega^2 = 1$
- Which of the following is true?
A) The set of integers under addition is an abelian group.
B) The set of two order matrices is an abelian group under multiplication.
C) The set of rational numbers under multiplication is an abelian group.
D) The set of natural numbers is an abelian group under addition.
- $\sin^{-1}x$ is equal to
A) $\cos^{-1}\sqrt{1-x^2}$ B) $\tan^{-1}\sqrt{1-x^2}$
C) $\operatorname{cosec}^{-1}\sqrt{1-x^2}$ D) $\cos^{-1}\sqrt{1-x^2}$
- If $\tan x + \frac{1}{\tan x} = 0$ is the trigonometric equations then the general value for x is
A) $x = \pm \frac{\pi}{6}$ B) $2x = \pm \frac{\pi}{6}$ C) $2x = \pm \frac{5\pi}{6}$ D) $x = \pm \frac{5\pi}{6}$
- If \vec{a} and \vec{b} are two vectors then the value of $(\vec{a} - \vec{b}) \times (\vec{a} + \vec{b})$ is equal to
A) $2(\vec{a} \times \vec{b})$ B) $\vec{a}^2 - \vec{b}^2$ C) $2(\vec{a} \times \vec{b})$ D) $2(\vec{a}^2 - \vec{b}^2)$

- The range of the probability of any event A is
A) $0 \leq P(A) \leq 1$ B) $0 \leq P(A) < 1$
C) $-1 \leq P(A) \leq 1$ D) $0 < P(A) < 1$
- Tangent to the curve $y = x^2$ at $x = 2$ and $x = -2$ are
A) parallel B) perpendicular C) intersecting D) Does not exist
- The integrating factor of differential equation $\sin x \frac{dy}{dx} + y \cos x = x \sin x$ is
A) $\sin x$ B) $\cos x$ C) $\tan x$ D) $\cot x$
- During the process of solving system of linear equation in x, y, z if we get $0 \times z = 0$, then the system is
A) inconsistent and has no solution
B) consistent and has unique solution
C) inconsistent and but has no solution
D) consistent and has infinitely solution
- A force acts on a body of mass m for a time T and changes its velocity from ' u ' to ' V '. The change in momentum of the body in time t is
A) $\frac{mu - mv}{t}$ B) $\frac{mv - mu}{t}$ C) $\frac{mv - mu}{u + v}$ D) $\frac{u - v}{mt}$

Or

In a input-output model if A -input coefficient of matrix, I be unit matrix then each diagonal elements of the $(I-A)$ is positive and $[I-A]$ is positive then the system is called

- A) viable B) unviable C) unit elastic D) elastic

Group 'B'

3×5=15

- a) Define binomial expansion. (1)
b) Find the middle term of $(2 + 3x)^{20}$ (2)
c) Find the sum of n binomial coefficients in the expansion of $(1+x)^n$ when $x = 1$. (1)
d) What do you mean by argument of complex number? (1)

J S C Final Math Question

AW Rasmussen



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Quarterly Journal Caribbean Society of Educational Administrators,1976 **Scientific and Technical Aerospace Reports** ,1980 **Some Mathematical Questions in Biology, X** Simon A. Levin,1979 *The Gentleman's journal* ,1870
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Educational Times and Journal of the College of Preceptors ,1908 **New York Court of Appeals. Records and Briefs.** New York (State)., **The Subject Index to Periodicals** ,1922 **Outlook** Alfred Emanuel Smith,Francis Walton,1914 **New Outlook** ,1914 The Outlook Lyman Abbott,Hamilton Wright Mabie,Ernest Hamlin Abbott,Francis Rufus Bellamy,1914 **Annual Report - Science Council of Japan** Nihon Gakujutsu Kaigi,1959 **Annual Report** Nihon Gakujutsu Kaigi,1964 **Poole's Index to Periodical Literature** ,1882 **Poole's Index to Periodical Literature** William Frederick Poole,1893 Poole's Index to Periodical Literature: Rev. ed., pt. 1, A-J, 1802-1881. pt. 2, K-Z ,1882 Math Grade Five Student Bk,2001-11-15 Fifth graders will explore and master such concepts as adding subtracting multiplying and dividing whole numbers decimals fractions and mixed numbers prime and composite numbers problem solving with integers rational numbers and real numbers geometry measurement money writing and solving equations and collecting organizing and analyzing data The theme for level five is The Heavens Above *Poole's Index to Periodical Literature: Rev. ed., 1802-1881 (2 v.)* William Frederick Poole,1882

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Table of Contents J S C Final Math Question

1. Understanding the eBook J S C Final Math Question
 - The Rise of Digital Reading J S C Final Math Question
 - Advantages of eBooks Over Traditional Books
2. Identifying J S C Final Math Question
 - 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 J S C Final Math Question
 - User-Friendly Interface
4. Exploring eBook Recommendations from J S C Final Math Question
 - Personalized Recommendations
 - J S C Final Math Question User Reviews and Ratings
 - J S C Final Math Question and Bestseller Lists
5. Accessing J S C Final Math Question Free and Paid eBooks
 - J S C Final Math Question Public Domain eBooks
 - J S C Final Math Question eBook Subscription Services
 - J S C Final Math Question Budget-Friendly Options

6. Navigating J S C Final Math Question eBook Formats
 - ePub, PDF, MOBI, and More
 - J S C Final Math Question Compatibility with Devices
 - J S C Final Math Question Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of J S C Final Math Question
 - Highlighting and Note-Taking J S C Final Math Question
 - Interactive Elements J S C Final Math Question
8. Staying Engaged with J S C Final Math Question
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers J S C Final Math Question
9. Balancing eBooks and Physical Books J S C Final Math Question
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection J S C Final Math Question
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine J S C Final Math Question
 - Setting Reading Goals J S C Final Math Question
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of J S C Final Math Question
 - Fact-Checking eBook Content of J S C Final Math Question
 - 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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