

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)

Maths Question Papers Grade 121

Katrin Zwirglmaier



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Table of Contents Maths Question Papers Grade 121

1. Understanding the eBook Maths Question Papers Grade 121
 - The Rise of Digital Reading Maths Question Papers Grade 121
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question Papers Grade 121
 - 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 Maths Question Papers Grade 121
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question Papers Grade 121
 - Personalized Recommendations
 - Maths Question Papers Grade 121 User Reviews and Ratings
 - Maths Question Papers Grade 121 and Bestseller Lists
5. Accessing Maths Question Papers Grade 121 Free and Paid eBooks
 - Maths Question Papers Grade 121 Public Domain eBooks
 - Maths Question Papers Grade 121 eBook Subscription Services
 - Maths Question Papers Grade 121 Budget-Friendly Options
6. Navigating Maths Question Papers Grade 121 eBook Formats

-
- ePub, PDF, MOBI, and More
 - Maths Question Papers Grade 121 Compatibility with Devices
 - Maths Question Papers Grade 121 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question Papers Grade 121
 - Highlighting and Note-Taking Maths Question Papers Grade 121
 - Interactive Elements Maths Question Papers Grade 121
 8. Staying Engaged with Maths Question Papers Grade 121
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question Papers Grade 121
 9. Balancing eBooks and Physical Books Maths Question Papers Grade 121
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question Papers Grade 121
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Maths Question Papers Grade 121
 - Setting Reading Goals Maths Question Papers Grade 121
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Maths Question Papers Grade 121
 - Fact-Checking eBook Content of Maths Question Papers Grade 121
 - 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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