

Solved Paper 2021

GATE Mathematics

Time : 3 hrs

MM : 100

Read the following instructions carefully

1. In this paper, there are 65 questions carrying 100 marks to be completed in 3 hrs.
2. Questions 1 to 25 carry 1 mark each and questions 26 to 55 carry 2 marks each.
3. Questions 56 to 65 belong to General Aptitude (GA) Type. Questions 56 to 60 carry 1 mark each and questions 61 to 65 carry 2 marks each.
4. Unattempted questions will carry zero marks.
5. For questions 1 to 25 and 56 to 60, 1/3 mark will be deducted for each wrong answer. For questions 26 to 55 and 61 to 65, 2/3 mark will be deducted for each wrong answer.
6. There is no negative marking for numerical answer type questions.
7. No physical calculator will be allowed. Charts, graph sheets and mathematical tables are not allowed in the examination hall.

(1 Mark Questions)

1. Let A be a 3×4 matrix and B be a 4×3 matrix with real entries such that, AB is non-singular. Consider the following statements

P Nullity of A is 0.

Q BA is a non-singular matrix.

Then,

- (a) Both P and Q are TRUE
- (b) P is TRUE and Q is FALSE
- (c) P is FALSE and Q is TRUE
- (d) Both P and Q are FALSE

Sol. (c) Let $A = [a_{ij}]_{3 \times 4}$, $B = [b_{ij}]_{4 \times 3}$

then, we know that $x^T C_{AB}(x) = x^T C_{BA}(x)$

i.e. non-zero eigen values of A and B are same with multiplicity

$\therefore AB$ and BA have same non-zero eigenvalue with same multiplicity.

$$AB = []_{3 \times 3}$$

$\Rightarrow AB$ has 3 non-zero eigenvalues.

$$BA = []_{4 \times 4}$$

$\Rightarrow BA$ has one eigen value which is zero which means BA is singular matrix.

Hence, statement Q is false.

Given that AB is non-singular Rank of $(AB) = 3$

As we know that $\rho(AB) \leq \min \{\rho(A), \rho(B)\}$

Max rank of $A = 3$ and maximum rank of $B = 3$

So, $3 \leq \min \{3, 3\}$

Possible if $\rho(A) = \rho(B) = 3$

Now, By Rank-Nullity theorem

$$4 = \rho(A) + \eta(A) \quad \because \rho(A) = 3, \eta(A) = 0$$

$$\Rightarrow \eta(A) = 1$$

i.e. Nullity of A is 1.

Therefore, Statement P is false.

2. Let $f(z) = u(x, y) + iv(x, y)$ for $z = x + iy \in \mathbb{C}$, where x and y are real numbers, be a non-constant analytic function on the complex plane \mathbb{C} . Let u_x , v_x and u_y , v_y denote the first order partial derivatives of $u(x, y) = \operatorname{Re}(f(z))$ and $v(x, y) = \operatorname{Im}(f(z))$ with respect to real variables x and y , respectively. Consider the following two functions defined on \mathbb{C} :
 $g_1(z) = u_x(x, y) - iv_y(x, y)$ for $z = x + iy \in \mathbb{C}$,

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

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