

MODEL QUESTION PAPER – 4
with Detailed Solutions

- If atleast one eigen value is zero and the remaining are negative then the quadratic form is
 - positive definite
 - negative definite
 - positive semidefinite
 - negative semidefinite
- Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 3 & 6 & 9 \end{bmatrix}$ is
 - 0
 - 2
 - 1
 - 3
- A square matrix A is said to be non-singular if
 - 0
 - $|A| \neq 0$
 - $|A| \neq 0$
 - Scalar matrix
- If A is a non singular matrix of order 4 then Rank of $A =$
 - 3
 - 4
 - 2
 - 1
- If three points $(x_r, y_r), r = 1, 2, 3$ are vertices of an equilateral triangle then $\begin{bmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{bmatrix}$ has rank
 - 2
 - 1
 - 3
 - 0
- The function $f(x, y)$ has a maximum at (a, b) if $\left(\frac{\partial f}{\partial x}\right) = 0, \frac{\partial f}{\partial y} = 0$ and
 - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} + \frac{\partial^2 f}{\partial x \partial y} = 0$ and $\frac{\partial^2 f}{\partial x^2} < 0$
 - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 f}{\partial x \partial y}\right)^2 > 0$ and $\frac{\partial^2 f}{\partial x^2} < 0$
 - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 f}{\partial x \partial y}\right)^2 > 0$ and $\frac{\partial^2 f}{\partial x^2} > 0$
 - $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \frac{\partial^2 f}{\partial x \partial y} > 0$
- Solve: $p \tan x + q \tan y = \tan z$
 - $f(\tan x, \tan y) = 0$
 - $f(\cos x, \cos y) = 0$

- $f\left(\frac{\sin x}{\sin y}, \frac{\sin y}{\sin z}\right) = 0$
 - $f\left(\frac{\cos x}{\cos y}, \frac{\cos y}{\cos z}\right) = 0$
- Particular integral of $(D^2 + 16)y = \cos 4x$ is
 - $\frac{x}{8} \cos 4x$
 - $\frac{x}{8} \sin 4x$
 - $x \cos 4x$
 - $x \sin 4x$
 - Particular integral of $(D^2 + 1)y = e^{-x}$ is
 - $\frac{e^{-x}}{2}$
 - $\frac{e^{-x}}{2}$
 - $\frac{e^{-x}}{-2}$
 - $\frac{e^{-x}}{-2}$
 - If $z = \log(e^x + e^y)$ then $\frac{\partial^2 f}{\partial x^2} \cdot \frac{\partial^2 f}{\partial y^2} - \left(\frac{\partial^2 z}{\partial x \partial y}\right)^2 =$
 - 4
 - 3
 - 2
 - 0
 - If $ax^i + by^j + cz^k$ where a, b, c are constants, then $\iint_S \vec{F} \cdot \hat{n} \, ds$ where S is the surface of the unit sphere is
 - $(a+b+c)$
 - $p(a+b+c)$
 - $\frac{4\pi}{3}(a+b+c)$
 - 0
 - Find the directional derivative of $\phi = 2xy + 5yz + zx$ at the point $(1, 2, 3)$ in the direction $3i - 5j + 4k$
 - $-2\sqrt{2}$
 - $\sqrt{2}$
 - $3\sqrt{2}$
 - $2\sqrt{2}$
 - The value of $\int_C 5y \, dx + 6x \, dy$ over the circle $x^2 + y^2 = 1$
 - 3π
 - 4π
 - π
 - π^2
 - $\iiint_V dv =$
 - Volume of the given surface
 - Area of cross section
 - 1
 - 0
 15. Evaluate: $\int_C \frac{z^4 + z^2 + z + 1}{z + 4} dz$ where C is the circle $|z| = 1$

Mathematics 1 For Engineering Model Question Paper

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Table of Contents Mathematics 1 For Engineering Model Question Paper

1. Understanding the eBook Mathematics 1 For Engineering Model Question Paper
 - The Rise of Digital Reading Mathematics 1 For Engineering Model Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 1 For Engineering Model Question Paper
 - 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 Mathematics 1 For Engineering Model Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics 1 For Engineering Model Question Paper
 - Personalized Recommendations
 - Mathematics 1 For Engineering Model Question Paper User Reviews and Ratings
 - Mathematics 1 For Engineering Model Question Paper and Bestseller Lists
5. Accessing Mathematics 1 For Engineering Model Question Paper Free and Paid eBooks
 - Mathematics 1 For Engineering Model Question Paper Public Domain eBooks
 - Mathematics 1 For Engineering Model Question Paper eBook Subscription Services

- Mathematics 1 For Engineering Model Question Paper Budget-Friendly Options
- 6. Navigating Mathematics 1 For Engineering Model Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics 1 For Engineering Model Question Paper Compatibility with Devices
 - Mathematics 1 For Engineering Model Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics 1 For Engineering Model Question Paper
 - Highlighting and Note-Taking Mathematics 1 For Engineering Model Question Paper
 - Interactive Elements Mathematics 1 For Engineering Model Question Paper
- 8. Staying Engaged with Mathematics 1 For Engineering Model Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 1 For Engineering Model Question Paper
- 9. Balancing eBooks and Physical Books Mathematics 1 For Engineering Model Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 1 For Engineering Model Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics 1 For Engineering Model Question Paper
 - Setting Reading Goals Mathematics 1 For Engineering Model Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics 1 For Engineering Model Question Paper
 - Fact-Checking eBook Content of Mathematics 1 For Engineering Model Question Paper
 - 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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