

Instructions : 1. The question paper has five parts namely A, B, C, D and E. Answer all the Parts.

2. Part A has 15 multiple choice questions, 5 fill in the blank questions.

3. Use the graph sheet for question on linear programming problem in Part E.

PART -A

I. Answer all the multiple choice questions : 15 x 1 = 15

1. The relation R in the set { 1,2,3 } given by { (1,2) ,(2,1) } is
  - a) reflexive
  - b) symmetric
  - c) transitive
  - d) equivalence relation
2. If  $f : \mathbb{R} \rightarrow \mathbb{R}$  be defined as  $f(x) = x^4$ , then the function f is
  - a) one-one and onto
  - b) many-one and onto
  - c) one-one but not onto
  - d) neither one-one nor onto
3. The principal value branch of  $\cot^{-1} x$  is
  - a)  $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
  - b)  $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$
  - c)  $[0, \pi]$
  - d)  $(0, \pi)$
4. The number of all possible matrices of order 3 x 3 with each entry 0 or 1 is
  - a) 27
  - b) 18
  - c) 81
  - d) 512
5. Let A be a nonsingular matrix of order 3 x 3 and  $|\text{adj } A| = 25$ , then a possible value of  $|A|$  is
  - a) 625
  - b) 25
  - c) 5
  - d) 125
6. Which of the following x belongs to domain of the greatest integer function  $f(x) = [x]$ ,  $0 < x < 3$  is not differentiable
  - a) 2 and 3
  - b) 1 and 2
  - c) 0 and 2
  - d) 1 and 3
7. If  $y = \log_7 2x$ , then  $\frac{dy}{dx}$  is
  - a)  $\frac{1}{x \log 7}$
  - b)  $\frac{1}{7 \log x}$
  - c)  $\frac{\log x}{7}$
  - d)  $\frac{7}{\log x}$
8. The point of inflection of the function  $y = x^3$  is
  - a) ( 2, 8 )
  - b) ( 1, 1 )
  - c) ( 0, 0 )
  - d) ( -3, -27 )
9.  $\int \sin 2x \, dx$  is
  - a)  $-\frac{\sin 2x}{2} + c$
  - b)  $-\frac{\cos 2x}{2} + c$
  - c)  $\frac{\cos 2x}{2} + c$
  - d)  $\frac{\sin 2x}{2} + c$
10.  $\int e^x \left(\frac{1}{x} - \frac{1}{x^2}\right) dx$  is
  - a)  $e^{-x} \left(\frac{1}{x}\right) + c$
  - b)  $e^{-x} \left(\frac{1}{x^2}\right) + c$
  - c)  $e^x \left(\frac{1}{x}\right) + c$
  - d)  $e^x \left(\frac{1}{x^2}\right) + c$

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**R Sandford**



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## **Table of Contents 2nd Puc Ncert Mathematics Model Question Papers**

1. Understanding the eBook 2nd Puc Ncert Mathematics Model Question Papers
  - The Rise of Digital Reading 2nd Puc Ncert Mathematics Model Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Puc Ncert Mathematics Model Question 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 2nd Puc Ncert Mathematics Model Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Puc Ncert Mathematics Model Question Papers
  - Personalized Recommendations

- 2nd Puc Ncert Mathematics Model Question Papers User Reviews and Ratings
- 2nd Puc Ncert Mathematics Model Question Papers and Bestseller Lists
- 5. Accessing 2nd Puc Ncert Mathematics Model Question Papers Free and Paid eBooks
  - 2nd Puc Ncert Mathematics Model Question Papers Public Domain eBooks
  - 2nd Puc Ncert Mathematics Model Question Papers eBook Subscription Services
  - 2nd Puc Ncert Mathematics Model Question Papers Budget-Friendly Options
- 6. Navigating 2nd Puc Ncert Mathematics Model Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - 2nd Puc Ncert Mathematics Model Question Papers Compatibility with Devices
  - 2nd Puc Ncert Mathematics Model Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Puc Ncert Mathematics Model Question Papers
  - Highlighting and Note-Taking 2nd Puc Ncert Mathematics Model Question Papers
  - Interactive Elements 2nd Puc Ncert Mathematics Model Question Papers
- 8. Staying Engaged with 2nd Puc Ncert Mathematics Model Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Puc Ncert Mathematics Model Question Papers
- 9. Balancing eBooks and Physical Books 2nd Puc Ncert Mathematics Model Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Puc Ncert Mathematics Model Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Puc Ncert Mathematics Model Question Papers
  - Setting Reading Goals 2nd Puc Ncert Mathematics Model Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Puc Ncert Mathematics Model Question Papers
  - Fact-Checking eBook Content of 2nd Puc Ncert Mathematics Model Question 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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