

CLASS 10 OPTIONAL MATHS

Class: 10

ECOECIS-ST-2080

D-29

Sub : Opt. Maths

Time : 2 hrs

F.M: 50

P.M: 18

Attempt all the questions.

Group: A

[4×1=4]

- 1] a) Define remainder theorem.
b) If the lines $ax+by+c=0$ and $px+qy+r=0$ are parallel, prove that $aq=b.p$
- 2] a) Write the formula of $\cos_2 A$ in form of $\tan^2 A$.
b) Point (x, y) is reflected in the line $x=0$ at first and then the image so formed is reflected in the line $y=k$. Find the final image.

Group: B

[6×2=12]

- 3] a) If a factor of a polynomial $p(x)=2x^3-6x^2-5m-2$ is $x-2$, find the value of m .
b) Which term of the series $5+9+13+\dots$ is 85? Find it.
- 4] a) If the lines $3x+my=5$ and $\frac{x}{2} + \frac{y}{3} = 1$ are parallel to each other, find the value of m .
b) If the lines represented by $16x^2-kxy+9y^2=0$ are coincident. Find the value of k .
- 5] a) If $\cos\theta = \frac{1}{2} \left(a + \frac{1}{a} \right)$ prove that: $\cos 2\theta = \frac{1}{2} \left(a^2 + \frac{1}{a^2} \right)$
b) Prove that: $\sin 75^\circ - \sin 15^\circ = \frac{1}{\sqrt{2}}$

Group: C

[6×4=24]

- 6] If $f(x)=2x+1$ and $g(x) = \frac{3x+1}{2}$ are two functions. If $fg(x)=g^{-1}(x)$. Find the value of x .
- 7] A function $f(x)$ is defined as follows: $f(x) = \begin{cases} kx+3 & \text{for } x \geq 2 \\ 3x-1 & \text{for } x < 2 \end{cases}$ at $x = 2$, If $f(x)$ is continuous at $x=2$, then find the value of k .
- 8] Solve by matrix method:
$$\frac{4}{x} + \frac{1}{y} = 3, \frac{2}{x} - \frac{5}{y} = -4$$
- 9] Find the equation of a pair of lines represented by the equation $x^2 - 2xy \csc \theta + y^2 = 0$, Also, find the angle between them.
- 10] Prove that: $(2\cos A + 1)(2\cos A - 1)(2\cos 2A - 1) = 2\cos 4A + 1$

Maths Question For 2ndterm Examination From District

Didier Musso



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Table of Contents Maths Question For 2ndterm Examination From District

1. Understanding the eBook Maths Question For 2ndterm Examination From District
 - The Rise of Digital Reading Maths Question For 2ndterm Examination From District
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question For 2ndterm Examination From District
 - 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 For 2ndterm Examination From District
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question For 2ndterm Examination From District
 - Personalized Recommendations
 - Maths Question For 2ndterm Examination From District User Reviews and Ratings
 - Maths Question For 2ndterm Examination From District and Bestseller Lists
5. Accessing Maths Question For 2ndterm Examination From District Free and Paid eBooks
 - Maths Question For 2ndterm Examination From District Public Domain eBooks
 - Maths Question For 2ndterm Examination From District eBook Subscription Services
 - Maths Question For 2ndterm Examination From District Budget-Friendly Options

6. Navigating Maths Question For 2ndterm Examination From District eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Question For 2ndterm Examination From District Compatibility with Devices
 - Maths Question For 2ndterm Examination From District Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question For 2ndterm Examination From District
 - Highlighting and Note-Taking Maths Question For 2ndterm Examination From District
 - Interactive Elements Maths Question For 2ndterm Examination From District
8. Staying Engaged with Maths Question For 2ndterm Examination From District
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question For 2ndterm Examination From District
9. Balancing eBooks and Physical Books Maths Question For 2ndterm Examination From District
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question For 2ndterm Examination From District
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Question For 2ndterm Examination From District
 - Setting Reading Goals Maths Question For 2ndterm Examination From District
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Question For 2ndterm Examination From District
 - Fact-Checking eBook Content of Maths Question For 2ndterm Examination From District
 - 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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