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UACE MATHEMATICS PAPER 1 2014 guide

SECTION A (40 marks)

Answer all questions in this section

1. Solve the simultaneous equation

X - 2y - 2z = 02x + 3y + z = 1

2x + 3y + z = 1

3x - y - 3z = 3(05 marks)

- A focal chord PQ, to the hyperbola y² = 4x, has a gradient m = 1. Find the coordinates of the mid-point of PQ. (05marks)
- 3. Given that cos 2A cos 2B = -p and sin 2A sin 2B = q, prove that sec (A + B) = $\frac{1}{q}\sqrt{p^2 + q^2}$ (05 marks)
- 4. Differentiatelo $g_s \left(\frac{e^{cons}}{sin^2x} \right)$.
- Find the equation of a line through S(1, 0, 2) and T(3, 2, 1) in the form r = a +λb. (05 marks)
- 6. Solve the equation $\sqrt{2x+3} \sqrt{x+1} = \sqrt{x-2}$ (05marks)
- 7. Find $\int x(1-x^2)^{\frac{1}{2}}dx$ (05 marks)
- A cylinder has radius r and height 8r. The radius increases from 4cm to 44.1cm. Find the approximate increase n the volume. (use π = 3.14) (05marks)

SECTION B (GOMARKS)

Answer any five questions from this section. All questions carry equal marks)

9. (a) Given that the complex number Z and its conjugate Z satisfy the equation

2Z + 2iZ = 12 + 6i. Find Z. (07marks)

(b) One root of the equation $Z^2 - 3Z^2 + 9Z + 13 = 0$ is 2 + 3i. Determine other roots (05 marks)

- 10. A circle is described by the equation x² + y² 4x 8y + 16 = 0. A line given by the equation y = 2(x 1) cuts the circle at points A and B. A point (x, y) moves such that its distance from the midpoint of AB is equal to its distance from the centre of the circle.
 - (a) Calculate the coordinates of A and B. (04 marks)
 - (b) Determine the centre and radius of the circle (O4marks)
 - (c) Find locus of P. (O4marks)
- 11. (a) differentiate $y = \cot^{-1}(Inx)$ with respect to x (O6marks)
 - (b) Evaluate f xsinxdx (06marks)

Maths Scope Paper 1 2014

Daniela Niemeyer

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Table of Contents Maths Scope Paper 1 2014

- 1. Understanding the eBook Maths Scope Paper 1 2014
 - The Rise of Digital Reading Maths Scope Paper 1 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Scope Paper 1 2014
 - 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 Scope Paper 1 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Scope Paper 1 2014
 - Personalized Recommendations
 - Maths Scope Paper 1 2014 User Reviews and Ratings
 - Maths Scope Paper 1 2014 and Bestseller Lists
- 5. Accessing Maths Scope Paper 1 2014 Free and Paid eBooks
 - Maths Scope Paper 1 2014 Public Domain eBooks
 - Maths Scope Paper 1 2014 eBook Subscription Services
 - Maths Scope Paper 1 2014 Budget-Friendly Options

- 6. Navigating Maths Scope Paper 1 2014 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Maths Scope Paper 1 2014 Compatibility with Devices
 - Maths Scope Paper 1 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Maths Scope Paper 1 2014
 - Highlighting and Note-Taking Maths Scope Paper 1 2014
 - Interactive Elements Maths Scope Paper 1 2014
- 8. Staying Engaged with Maths Scope Paper 1 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Maths Scope Paper 1 2014
- 9. Balancing eBooks and Physical Books Maths Scope Paper 1 2014
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Maths Scope Paper 1 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Scope Paper 1 2014
 - Setting Reading Goals Maths Scope Paper 1 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Scope Paper 1 2014
 - Fact-Checking eBook Content of Maths Scope Paper 1 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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