NATIONAL SENIOR CERTIFICATE: MATHEMATICS: PAPER I - MARKING GUIDELINES

Page 2 of 17

### NOTE:

- If a candidate answers a question more than once, only mark the FIRST attempt.
- · Consistent Accuracy applies in all aspects of the marking memorandum.

### SECTION A

## QUESTION 1

(a)(1)	$px^{2} + 2x - 3 = 0$ $x = \frac{(-2) \pm \sqrt{(2)^{2} - 4(p)(-3)}}{2(p)}$ $x = \frac{-2 \pm \sqrt{4 + 12p}}{2p}$ $x = \frac{-2 \pm 2\sqrt{1 + 3p}}{2p}$ $x = \frac{-1 \pm \sqrt{1 + 3p}}{p}$	use of quadratic formula $x = \frac{-2 \pm \sqrt{4 + 12\rho}}{2\rho}$ simplified solution
(a)(2)	Non-real roots for: $1+3p<0$ $p<-\frac{1}{3}$	$\Delta < 0$ $\rho < -\frac{1}{3}$ No marks for $\Delta > 0$
(b)	$\sqrt{x-2} + 4 = x$ $x^{2} - 9x + 18 = 0$ $(x-2) = (x-4)^{2}$ $x-2 = x^{2} - 8x + 16$ $x=6 \text{ or } x=3$ $\text{n/v for } x=3$	Isolate surd $x^2 - 4x + 4$ $x^3 - 8x + 16$ factors answer with selection
(c)	$(x+3)(x-1) \ge 0$ Crit. values: $-3:1$ $x \le -3$ or $x \ge 1$	Number line/graph $x \le -3$ or $x \ge 1$

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# **Mathematics P1 September Preparatory Examination**

**Sir Norman Lockyer** 

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# **Table of Contents Mathematics P1 September Preparatory Examination**

- 1. Understanding the eBook Mathematics P1 September Preparatory Examination
  - The Rise of Digital Reading Mathematics P1 September Preparatory Examination
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics P1 September Preparatory Examination
  - 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 P1 September Preparatory Examination
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics P1 September Preparatory Examination
  - Personalized Recommendations
  - Mathematics P1 September Preparatory Examination User Reviews and Ratings
  - Mathematics P1 September Preparatory Examination and Bestseller Lists

- 5. Accessing Mathematics P1 September Preparatory Examination Free and Paid eBooks
  - Mathematics P1 September Preparatory Examination Public Domain eBooks
  - Mathematics P1 September Preparatory Examination eBook Subscription Services
  - Mathematics P1 September Preparatory Examination Budget-Friendly Options
- 6. Navigating Mathematics P1 September Preparatory Examination eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Mathematics P1 September Preparatory Examination Compatibility with Devices
  - Mathematics P1 September Preparatory Examination Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics P1 September Preparatory Examination
  - Highlighting and Note-Taking Mathematics P1 September Preparatory Examination
  - Interactive Elements Mathematics P1 September Preparatory Examination
- 8. Staying Engaged with Mathematics P1 September Preparatory Examination
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics P1 September Preparatory Examination
- 9. Balancing eBooks and Physical Books Mathematics P1 September Preparatory Examination
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics P1 September Preparatory Examination
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics P1 September Preparatory Examination
  - Setting Reading Goals Mathematics P1 September Preparatory Examination
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics P1 September Preparatory Examination
  - Fact-Checking eBook Content of Mathematics P1 September Preparatory Examination
  - 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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