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Joint Matriculation Board

General Certificate of Education

**MATHEMATICS. PAPER I**  
**ADVANCED**

WEDNESDAY 14 JUNE 1961, 9.30-12.30

*Answer seven questions.*

1. (a) Given the simultaneous equations

$$x^2 - 6xy + 11y^2 = 3a^2,$$

$$x^2 - 2xy - 3y^2 = 5a^2,$$

derive an equation in  $x$  and  $y$  only, and hence solve the equations for  $x$  and  $y$  in terms of  $a$ .

(b) Write down the  $n$ th term of the arithmetic series with first term  $a$  and common difference  $d$ .

In each of a set of  $n$  separate arithmetic series, the first term is 1. The common difference of the first series is 1, of the second 2, of the third  $2^2$ , and so on. Find, in its simplest form, a formula for the sum of the  $n$ th terms of the  $n$  series.

2. (a) Find the ranges of values of  $k$  for which the equation

$$x^2 + (k-3)x + k = 0$$

has (i) real distinct roots, (ii) roots of the same sign.

- (b) Solve the equation

$$x^2 + 4x + 20 = 0,$$

giving the roots in the form  $p \pm iq$ , where  $p$  and  $q$  are real.

- (c) If  $z^3 = 1$ , find the two possible values of  $1 + z + z^2$ .

# Gce A Level Past Papers

**Jin-Ying Zhang**



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## The Enigmatic Realm of **Gce A Level Past Papers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Gce A Level Past Papers** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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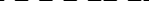
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