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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

Liyong Dong



Gce A Level Past Papers:

Unveiling the Magic of Words: A Review of "**Gce A Level Past Papers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Gce A Level Past Papers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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