411/3 ORD. LEVEL

LOCAL EXAMINATIONS SYNDICATE

Thursday 26 NOV. 1959

GENERAL CERTIFICATE OF EDUCATION

2 hours

A

MATHEMATICS

ORDINARY LEVEL

ALTERNATIVE A

ALGEBRA

(Two hours)

Mathematical tables and squared paper are provided.

Candidates are warned that misreading a question may lead to the loss of a number of marks.

All working must be clearly shown; it must be done on the same sheet as the rest of the answer.

Section I [56 marks]

Answer all the questions in this section.

- 1. (i) Simplify $x^4 + 4 3(x 1)(x 3)$.
 - (ii) Evaluate s(s-3)(s+2) when s=-5.
 - (iii) Reduce $\frac{3}{x+1} \frac{2}{x-1}$ to a single fraction.
- 2. Solve the equations

(i)
$$\frac{x+1}{5} - \frac{x-3}{6} = \frac{6-x}{6}$$
;

(ii)
$$x-3y=3x-1=2x-y$$
.

3. (i) A man walks x miles at y m.p.h. and then waits 20 min. for a bus in which he travels for $1\frac{1}{2}$ hr. at z m.p.h. Find expressions for

- (a) the total distance travelled;
- (b) the time, in hours, for the whole journey.
- (ii) If $A = 3l (2h + \pi r)$, find r in terms of A, l, π and h.
- 4. Factorize
 - (i) $(x-3)^2-2(x-3)$;
 - (ii) $4x^2-9(y-2)^2$;
 - (iii) $2x^2 + 5xy 12y^2$.

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