UNIVERSITY OF LONDON

GENERAL CERTIFICATE OF EDUCATION EXAMINATION

Ordinary Level

PURE MATHEMATICS.—II

(Syllabus B)

*Credit will be given for the orderly presentation of material;
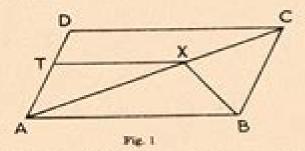candidates who neglect this essential will be penalised.*

All necessary working must be shown

Answer ALL *questions in Section* A *and* THREE *questions
only in Section* B.

SECTION A

1. (Tables may NOT be used for any part of this Question.)

(i) Find the value of $4 \cdot 7^3$.

(ii) Given that $\tan A = \dfrac{15}{8}$, calculate $\sin A$.

(iii) Find the value of $5^0 - (49^{\frac{1}{2}} \times 3^{-2})$.

2. (i) Use tables to evaluate $\sqrt{(\sin 40° + \tan 40°)}$

and $\dfrac{10}{\cos 37° 37'}$.

(ii) In the triangle ABC, $AB = AC$. The bisector of the angle ABC meets AC at X. Given that the angle $BXC = 60°$, calculate the angle BAC.

3. (i) Solve the equations $\dfrac{x}{2} - \dfrac{y}{3} = 2$, $\quad 2x + 2y = 1\frac{1}{2}$.

(ii) An isosceles triangle has angles $46°$, $67°$ and $67°$ and an area of 50 sq. cm. Calculate the length of its equal sides.

4. Using a scale of 1 in. to represent 10 units on both axes, plot the points $A(-2, 10)$, $B(14, -14)$ and $C(48, 20)$. Using ruler and compasses only, construct the circle which passes through A, B and C. State the coordinates of the centre of this circle.

5. (i) Express $\dfrac{2}{2n-1} - \dfrac{1}{n}$ as a single fraction in its simplest form.

Fig. 1

(ii) In Fig. 1, $ABCD$ is a parallelogram, BX bisects the angle ABC and TX is parallel to AB. Given that $AT = 5$ in. and $TD = 2$ in., calculate the length of AB.

SECTION B

Answer THREE *questions only in this section.*

6. (i) Six cylindrical tins, each having a circular base of diameter 3 in. and each of height 5 in., are packed into a rectangular box whose internal measurements are 6 in. by 8 in. by 10 in. Calculate the volume of sawdust required to fill the remainder of the box. Give your answer in cu. in. and take π as $3\frac{1}{7}$.

(ii) ABC is an isosceles triangle in which $AB = AC$. AB is produced to P so that B is the mid-point of AP. BC is produced to Q so that C is the mid-point of BQ. PC produced meets AQ at X. Prove that

(a) $AQ = CP$,

(b) $CX = XQ$.

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