

Question 2

- (a) Mr. Ravi borrows ₹ 16,000 for 2 years. The rate of interest for the two successive years are 10% and 12% respectively. If he repays ₹ 5,600 at the end of first year, find the amount outstanding at the end of the second year. [3]

- (b) Simplify: [3]

$$\left(\frac{8}{27}\right)^{-\frac{1}{3}} \times \left(\frac{25}{4}\right)^{\frac{1}{2}} \times \left(\frac{4}{9}\right)^0 + \left(\frac{125}{64}\right)^{\frac{1}{3}}$$

- (c) In the given figure, ABCD is a parallelogram. AB is produced to P, such that AB = BP and PQ is drawn parallel to BC to meet AC produced at Q. Given AB = 8 cm, AD = 5 cm, AC = 10 cm. [4]

- (i) Prove that point C is mid point of AQ.
(ii) Find the perimeter of quadrilateral BCQP.

**Question 3**

- (a) Solve following pairs of linear equations using cross-multiplication method: [3]

$$5x - 3y = 2$$

$$4x + 7y = -3$$

- (b) Without using tables, evaluate: [3]

$$4 \tan 60^\circ \sec 30^\circ + \frac{\sin 31^\circ \sec 59^\circ + \cot 59^\circ \cot 31^\circ}{8 \sin^2 30^\circ - \tan^2 45^\circ}$$

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**Keith Alexander Dan, Frank Aaron
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