

In this question candidates were required to interpret the information given in the table on taxation rates.

Weaknesses

Very few candidates were able to recognize that the range in the first and last taxation levels differed with the others. Majority lacked knowledge on taxation entirely.

Expected Responses

In part (a) of the question, candidates needed to add up Ole Sanguya's monthly earnings as given in the question:

$$20,600 + 12,000 + 2,880 + 340 = \text{sh } 35,820$$

In part (b), the monthly tax paid by Ole Sanguya is calculated by subjecting his total earnings, obtained in part (a), to the taxation rates given in the question as follows:

$$\text{Taxation on the 1}^{\text{st}} \text{ sh } 9,680: \quad \frac{10}{100} \times 9,680 = 968$$

$$\text{Taxation on the 2}^{\text{nd}} \text{ sh } 9,120: \quad \frac{15}{100} \times 9,120 = 1,368$$

$$\text{Taxation on the 3}^{\text{rd}} \text{ sh } 9,120: \quad \frac{20}{100} \times 9,120 = 1,824$$

$$\text{Taxation on the 4}^{\text{th}} \text{ sh } 7,900: \quad \frac{25}{100} \times 7,900 = 1,975$$

This would give a total of sh 6,135 ($968 + 1368 + 1824 + 1975$)

Since Ole Sanguya was entitled to a monthly relief of sh 1,056, the payable tax would be obtained by subtracting the relief from the total tax

$$\text{ie } 6,135 - 1056 = \text{sh } 5,079$$

Question 23

A triangular plot ABC is such that the length of the side AB is two thirds that of BC. The ratio of the lengths AB : AC = 4 : 9 and the angle at B is obtuse.

If the perimeter of the plot is 38 m, calculate:

(a) the length of the side BC (3 marks)

(b) (i) the area of the plot (3 marks)

(ii) the size of $\angle ABC$. (2 marks)