This question tested on the candidates' knowledge on construction of an escribed circle. This skill had not been tested for quite a number of years hence, it caught many candidates on the wrong footing.

Weaknesses

Candidates had difficulties in locating point O, the centre of the circle. A number of those who emerged to identify the centre of the circle, used trial and error to draw the circle since they were unable to determine its radius accurately.

Expected Responses

In order to correctly and accurately determine the centre of the escribed circle, candidates needed to bisect the exterior angles of triangle XYZ at Y and Z when lines XY and XZ are produced respectively. The radius of the circle was then to be determined by dropping a perpendicular to line YZ from the centre of the circle. Using the centre and radius the escribed circle could then be drawn.

Question 17

The table below shows monthly income tax rates for the year 2003.

Monthly taxable income in K sh	Tax rates (Percentage)
1–9 680	10%
9 681–18 800	15%
18 801–27 920	20%
27 921–37 040	25%
37 041 and above	30%

In the year 2003, Ole Sanguya's monthly earnings were as follows:

Basic salary	K sh 20 600
House allowance	K sh 12 000
Medical allowance	K sh 2 880
Transport allowance	K sh 340

Ole Sanguya was entitled to a monthly tax relief of K sh 1 056.

Calculate:

(a) his monthly taxable income   (2 marks)

(b) the monthly tax paid by Ole Sanguya.   (6 marks)

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