

Expected Responses

Candidates needed to realize that for the bank to enter into any financial transaction, it must make profit. Therefore, the bank bought the Euros at @ sh 84.15 and sold the Japanese yen at @ sh 65.45 to the visiting Japanese in order to make maximum profit.

Thus the conversions were as follows:-

Conversion of Euros to SHS

$$\begin{aligned} &= 84.15 \times 5000 \\ &= \text{sh } 420,750 \end{aligned}$$

Balance after spending

$$\begin{aligned} &= 420,750 - 289,850 \\ &= \text{sh } 130,900 \end{aligned}$$

Conversion of Japanese yen

$$\begin{aligned} &= \frac{130,900 \times 100}{65.45} \\ &= 200,000 \text{ Japanese yen} \end{aligned}$$

Question 19

Four electricity posts A, B, C and D stand on a level ground such that B is 21 m on a bearing of 060° from A, C is 15 m to the south of B and D is 12 m on a bearing of 140° from A.

- (a) (i) Using a scale of 1 cm to represent 3 metres, draw a diagram to show the relative positions of the posts. (3 marks)
- (ii) Find the distance and the bearing of C from D. (2 marks)
- (b) The height of the post at A is 8.4 m. On a separate scale drawing, mark and determine the angle of depression of the foot of the post at C from the top of the post at A. (3 marks)

This question tested on the candidates' knowledge on scale drawing. The requirements of the question were as follows:-

- ◆ Drawing a diagram to show the relative position of 4 posts using a scale;
- ◆ Finding the distance and the bearing of one post from the other on the scale drawing;
- ◆ Drawing a scale diagram and mark on it the angle of depression of the foot one post from the top of another post.