**GATITU MIXED SECONDARY SCHOOL. ENDTERM EXAM.**

 **FORM Two**

**Answer all questions in spaces provided.**

1.Evaluate without using a calculator

. (3mks)

 2.Mr. Wafula went to the supermarket and bought two biros and five pencils at sh.120.Whereas three biros and two pencils cost him sh.114. Find the cost of each biros and pencils (3marks)

3..The interior angle of a regular polygon is 108o larger than the exterior angle. How many

sides has the polygon? (2marks)

4. Three sirens wail at intervals of thirty minutes, fifty minutes and thirty five minutes.If they wail together at 7.18a.m on Monday, what time and day will they next wail together? (3marks)

 5..A customer paid Ksh. 5 880 for a suit after she was allowed a discount of 2% on the selling price. If the discount had not been allowed, the shopkeeper would have made a profit of 20% on the sale of the suit. Calculate the price at which the shopkeeper bought the suit. (3marks)

 6..Convert the recurring decimal l into fraction (3mks)

7.A rectangular water tank measures 2.6m by 4.8m at the base and has water to a height of 3.2m. Find the volume of water in litres that is in the tank (3marks)

8..Foreign exchange on 27/5/2010 was given as follows:.

|  |  |  |
| --- | --- | --- |
| **Currency**  | **Buying** (Kshs) | **Selling** (Kshs) |
| 1 Euro | 84.15 | 84.26 |
| 1 Sterling pound | 118.35 | 121.47 |
|  |  |  |

 A tourist came to Kenya from London with 6000 Euros which he converted to Kenya shillings at a bank. While in Kenya he spent a total of Kshs.300,000 then converted the balance into sterling pounds at the Same bank. Calculate the amount in sterling pounds he received. (3marks)

 9..In January, Mambo donated 1/6th of his salary to a children's home while Simba donated 1/5th of his salary to the same children's home. Their total donation for January was Ksh. 14 820. In February, Mambo donated 1/8th of his salary to the children's home while Simba donated 1/12th of his salary to the children's home. Their total donation for February was Ksh 8 675. Calculate Mambo 's monthly salary. (4 marks)

10.Onyango buys p oranges and discover that 1% are bad .How many oranges are fit for consumption? (2marks)

11.Solve each of the following pairs of simultaneous equations graphically(use the graph provided) (4marks)

 a) 2x-y= 3

 7x+2y= 16

12.Jane bought a dress at a price at Sh.3500 and later sold it at Sh.2800 What percentage loss did she incur? (3marks)

13.Miss Onyango sold goods worth at sh.12000 at a commission of 5% .How much commission did she get? (3marks)

14.A circular pond of diameter 7m is surrounded by a path 2.8m wide .Find the area of the path (3marks)

15.Find the difference between the area swept out by the minute hand of a clock which is 3.6cm long and the hour hand which is 2.9cm long (3marks)