GATITU DAY MIXED SECONDARY SCHOOL

MATHEMATICS FORM ONE CAT 2

MIDTERM EXAMS

1. Evaluate 574 / 14 \* 42 (2mks)

 (3mks)

 2. Solve x+ 1 /3 - 2x + 1 /5 =1/4

3. Express the recurring decimals as fractions

 3.25060  (2mks)

4. After a man has spent 2/5 of his salary, he has sh. 1200 left. How much is his salary? (2mks)

5. Three bells ring at an intervals of 30 min, 35 min and 40 min respectively .If they rang together at 4.50 am in the morning at what time will they next ring together. (3mks)

6. 8 men working 7 hours a day take 12 days to dig a shamba . How long will it take 6 men working 14 hours a day to dig the same shamba. (3mks)

7. Okuku’s uses 60 bottles of milk per month. As a result of the price of milk being raised from sh. 20 to sh. 22 per bottle, he decides to reduce his monthly consumption to 55 bottles. In what ratio does his monthly bill for milk change? (2mks)

8. A student pays 20% more for his bus fare from home to school than he used to pay two years ago, if he pays sh. 30, how much was he paying then? (2mks)

9. John paid his gas cooker for 18 months at the rate of sh. 800 per month. How many months would he have taken to pay for the gas cooker had he increased his monthly payment by sh. 400? (2mks)

10. The profit of a firm divided between new plant, reserves and dividends are in the ratio 3: 7: 9. If the profit is sh. 380,000, what is the amount put to reserve? (2mks)

11. Simplify by use of common factors

3bx -3by +4ax – 4ay (2mks)

 X - y

12. Factorize the expressions

 X2 +xy +2x +2y (2mks)

13. Remove the brackets and simplify

 a) 4(x + 1) – 3 (x- 1) (1mk)

 6

 (2mks)

 b) 2/y (1/2y+ y3+y2)