**SECTION A: 50 MARKS**

1. A company was reported to have made a profit of Sh. 93 678 563. Two daily newspapers gave the figure: One to the nearest 1 000 000 and the other to the nearest 10 000. What was the difference between the rounded off figures? (3mks)
2. When a number is divided by 15, the quotient is 18 and remainder 5. What is the number? (2mks)
3. Work out the following

 (2mks)

 4.Five companies employed 2 340 3455 675 960 and 1350 workers. The first two companies laid off 1 worker for every 5 and the other three recruited 2 new workers for every 3.

 (a)What was the total number of workers at the beginning? (1mk)

(b)How many people

1. Lost job? (2mks)
2. Got jobs? (2mks)

 5. Work out the following:

 (3mks)

6.Evaluate to 5 decimal places (3mks)

1. Abiero made 3 trips from town P to town Q by bus. On two occasions he returned to P by minibus and one by bus. If the fare to Q from P is Sh.180 by bus and Sh.220 by minibus. How much did the trios cost him? (2mks)

9.Write the number where standard form is (2mks)

1. 3.12 x 102
2. 7.85 x 10-3
3. Solve each of the following operation using number line.
4. (+5)-(-2) (4mks)
5. (-3)-(-4)
6. (+6)-(+3)
7. (-2)-(+5)
8. Express the following as a fraction. (2mks)

1. A rectangle which is three times as long as it is wide has the same perimeter as a square of area 64cm2. What is the length of the rectangle? (3mks)
2. A man hired a car for two weeks for Sh.10500. how much would it have cost him to hire it for nine days? (2mks)

12.A farmer has 3 containers of capacity 40 litres, 36 litres and 27 litres. Find the capacity of;

1. The smallest container that can be filled by each one of them an exact number of times. (3mks)
2. The largest container that can be used to fill each one of them an exact number of times. (2mks)
3. After the tenth month of the year, what fraction of the year still remains? (1mk)
4. The average mass of students in a class of 45 was 41kg at the beginning of the term. At the end of the term, they had each gained 3kg. calculate:
5. Their total mass at the end of the term. (2mks)
6. The difference between total mass at the start of the term and end of the term. (1mk)
7. Work out:

970 – (432 + 324) + 6(480 – 350). (3mks)

1. Express the following number in prime factors (1mk)

1573

1. The total mass of two pigs and 12 goats is 241.64. The mass of the two pigs is 145.36kg. Find the average mass of each goat to the nearest1 Kg. (3mks)
2. What must be subtracted from the product of 5½ and 3 to get 18½? (3mks)
3. Three bell rings at intervals of 40 minutes, 45 minutes and 60 minutes. If they ring simultaneously at 6.30am, at what time will they next ring together? (3mks)