**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ADM NO: \_\_\_\_\_\_\_\_\_\_\_\_CLASS: \_\_\_\_\_\_\_\_\_\_**

**DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_TARGET\_\_\_\_\_\_\_\_\_\_**

**MATHEMATICS**

**FORM 1**

**MID-TERM EXAM**

**TERM 1, 2024**

**INSTRUCTIONS: (Answer all the questions) TIME: (1h 30 mins)**

**SECTION I: 30 MARKS**

1.Express the following numbers in words. (4mks)

a) 14633001

b) 30000010

2.Round off the following numbers to the nearest values indicated in the brackets,

a) 370 (100) (1mk)

1. b)2499 (10) (1mk)
3. 3)Express the following number as products of prime factors using power notation. (3mks)
4. 900.
5. 4.Determine, without actual division, whether the number 51,257,932 is: (4mks)
6. Divisible by 3
7. Divisible by 11

5.The L.C.M of three numbers is 24 and their G.C.D is 4. If two of the numbers are 8 and 12, find the other number. (4mks)

1. 6. Use a number line to evaluate:( 4mks)
2. (+4) + (-6)
3. (-3) - (-4)
4. 7.Find the GCD of 72, 96 and 300 (3mks)

8. (a)All prime numbers less than ten are arranged in descending order to form a number

(i)Write down the number formed (2 mks)

1. (ii)State the place value and total value of the second digit in the number formed in a(i) above (2 mks)

9From the following set of numbers which are:

1. Odd [20,18,6,7,8,21] (1mk)
2. Prime [14,2,10,9,3] (1mk)

**SECTION II: 20 MARKS**

10. A bookstore had 30816 books which were packed in cartons. Each carton contained 24 exercise books. The mass of each empty carton was 2kgs and that of a carton full of exercise books was 12kgs.

a) How many cartons were there. (3mks)

1. b) What was the total mass of empty cartons. (3mks)
2. c)What was the total mass of books alone? (4mks)
3. 11. a) Three bells rang at intervals of 9 minutes 15 minutes and 21 minutes. The bells will ring together at 11.00pm. find the time the bells rang together (3mks)
4. b) Round off the following numbers to the nearest values indicated in the brackets
5. 38679 (10000) (2mks)
6. 473678 (100) (2mks)
7. c)Rhoda walked four floors down from the tenth floor and then took a lift to the eighteenth floor. How many floors did she go through while in the lift. (3mks)