

**Attempt all question**

1. Set M= {Multiples of 2 less than 10} 5

a. Define set with an example .

b. Does  $6 \in M$  ? Give a reason .

c. Writes the set M in the set -builder from .

2. Four digits are 7,0,9,8 5

a. Make greatest number of given digits.

b. Make smallest number of given digits .

c. Find the sum and difference of greatest and smallest number .

3. a) Write a mathematical expression and simplify it."Two is multiplied by one less than the difference of nineteen and six." 2

b) Simplify :  $39-[23-\{29-(17-\overline{9-3})\}]$  2

4. Write the following sets using the listing method .

a) Multiples of 2 less than 14. 2

b) Factors of 12. 2

c) Common elements of  $(M_2)$  and  $(f_{12})$  1

5. a) Write one even prime number. 1

b) Find the prime factors of 72. 1

c) A gardener plans to plant 8 flowering plant in each row and column in a square garden. How many plants does he need? 2

6. a) Find the square root of 2500. 1

b) Reduce  $\frac{36}{45}$  in to the lowest term. 2

c) Find the LCM of 24 and 40. 2

7. a) Write the opposite value of (+36). 1

b) Arrange -2,+1,+5,+3,-4,0 in ascending order. 2

c) Find the value of  $\{(-7)x(-5)\}x(-2)]+(+3)$  2

8. a) Convert  $\frac{17}{3}$  into mixed fraction .

1

b) Subtract :  $\frac{7}{12} - \frac{9}{16}$  2

c) Divide :  $2.45 \div 0.5$  2

9. a) Multiply : 0.25 by 1000 1

b) Write any two equivalent fraction of  $\frac{7}{13}$  2

c) Multiply :  $4 \times \frac{2}{3} \times \frac{9}{16}$  2

10. a) Round off 9.82576 to three decimal places. 1

b) Express  $\frac{4}{5}$  as percentage (%). 1

c) Find HCF of 30 and 42 by using listing method . 3

The End