

Tsi-7M

Tenkasal District Common Examinations  
Summative Assessment - September 2022



## Standard 7

Time: 2.00 Hrs.

### MATHS

Marks: 60

#### PART - A

#### I. Choose the correct answer:

5×1=5

- 1)  $(-5) - (-18) =$  \_\_\_\_\_  
 i) 23                                      ii) -13                                      iii) 13                                      iv) -23
- 2) The height of the rhombus whose area 96 sq.m and side 24 m is  
 i) 8m                                      ii) 10m                                      iii) 2m                                      iv) 4m
- 3) The numerical co-efficient of  $-7mn$  is \_\_\_\_\_  
 i) 7                                      ii) -7                                      iii) p                                      iv) -p
- 4) An aircraft can accommodate 280 people in 2 trips. It can take \_\_\_\_\_ trips to take 1400 people.  
 i) 8                                      ii) 10                                      iii) 9                                      iv) 12
- 5) The sum of all angles at a point is \_\_\_\_\_  
 i)  $360^\circ$                                       ii)  $180^\circ$                                       iii)  $90^\circ$                                       iv)  $0^\circ$

#### II. Fill in the blanks:

5×1=5

- 6)  $25 \div$  \_\_\_\_\_  $= -5$
- 7) The number of terms in the expression  $3ab+4c-9$  is \_\_\_\_\_.
- 8) If 40 workers can do a project work in 8 days, then \_\_\_\_\_ workers can do it in 4 days.
- 9) When two lines intersect each other, two pairs of non adjacent angle formed are called \_\_\_\_\_ angles.
- 10) A tetromino is a shape obtained by \_\_\_\_\_ squares together.

#### III. Say True or False:

5×1=5

- 11)  $(-125) + 25 = -100$
- 12) A parallelogram with one pair of non-parallel sides is known as a Trapezium.
- 13) If  $x$  is a natural number, then  $x+1$  is its predecessor.
- 14) If Mallika walks 1km in 20 minutes, then she can cover 3 km in 1 hour.
- 15) Vertically opposite angles are not equal in measure.

#### IV. Match the following:

5×1=5

- |                                     |   |   |
|-------------------------------------|---|---|
| 16) $22 + (-22)$                    | - | $b \times h$ sq.units                   |
| 17) $(-40) \div (-1)$               | - | -1                                      |
| 18) Area of parallelogram           | - | 0                                       |
| 19) Area of trapezium               | - | 40                                      |
| 20) Numerical co-efficient of $-xy$ | - | $\frac{1}{2} \times h (a + b)$ sq.units |

#### PART - B

#### V. Answer ANY 10 questions:

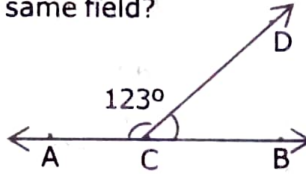
10×2=20

- 21) Subtract using the number line:  $+6 - (-5)$
- 22) Find the product of  $(-10) \times 12 \times (-9)$ .
- 23) Find the value of  $(-75) \div 5$ .
- 24) Find the height 'h' of the parallelogram whose area and base are 368 sq.cm and 23 cm respectively.
- 25) Calculate the area of the rhombus having diagonals equal to 19 cm and 16 cm.
- 26) Write the variables and constants of the following expression:  $7p-4q+5$
- 27) Subtract  $4k$  from  $12k$ .
- 28) Add the expressions:  $pq-1$  and  $3pq+2$

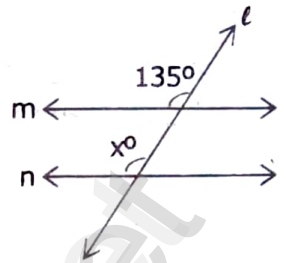
Tsi-7M

- 29) If 6 children shared 24 pencils equally, then how many pencils are required for 18 children?
- 30) 10 farmers can plough a field in 21 days. Find the number of days reduced if 14 farmers ploughed the same field?

31) Find the missing angle.



32) Find the measure of angle 'x' in the following figure.



33) Draw a tetromino which passes symmetry.

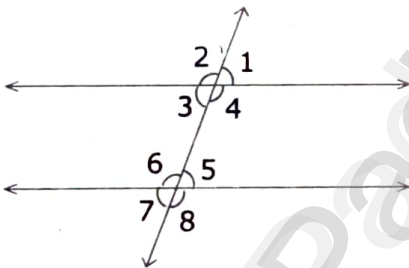
PART - C

VI. Answer ANY FIVE questions:

5x3=15

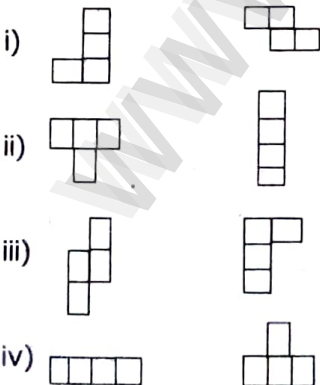
- 34) Are  $3 \times [(-4)+6]$  and  $[3 \times (-4)] + (3 \times 6)$  equal? Mention the property.
- 35) Each day, the workers drill down 22 feet further until they hit a pool of water. If the water is at 110 feet, on which day will they hit the pool of water?
- 36) The collar of a shirt is in the form of isosceles trapezium whose parallel sides are 17 cm and 14 cm and the distance between them is 4 cm. Find the area of canvas that will be used to stitch the collar.
- 37) Find two consecutive natural numbers whose sum is 75.
- 38) If  $x = 3$ ,  $y = 2$  find the value of  $3x + 2y - 5$ .
- 39) It takes 120 minutes to weed a garden with 6 gardeners. If the same work is to be done in 30 minutes, how many more gardeners are needed?

40)



- i) Name the angle that corresponds to  $\angle 1$ .
- ii) Name the angle that is alternate interior to  $\angle 3$ .
- iii) Name the angle that is alternate exterior to  $\angle 8$ .

41) Match the tetrominoes of same type:



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PART - D

VII. Answer ANY 1 of the following questions:

5x1=5

- 42) Construct a perpendicular bisector of the line segment  $AB = 8$  cm.
- (OR)
- 43) Construct bisector of the  $\angle ABC$  with the measure  $80^\circ$ .