

**SCHOOL NAME:**

**DISTRICT:**

**TALUKU:**

# FORMATIVE ASSESSMENT-1

Subject: Mathematics

Class: 9<sup>th</sup> standard

MARKS:20

DATE: -07-2023

DURATION: 45min

**General instructions:**

- This test consists of 10 questions including objective and subjective type.
- Read questions and answer all.
- The use and carrying electronic device in the exam hall is prohibited.

**I. State whether following statements are True or False--- 1x4=4**

1. Only one line can pass through a single point.
2. If two circles are equal, then their radii are equal.
3. There are an infinite number of lines which pass through two distinct points.
4. Sum of pairs of two linear pair of angles is  $180^\circ$ .

**II. Answer the following questions----- 2x3=6**

5. Find the product of  $(\sqrt{5} - \sqrt{2})(\sqrt{5} + \sqrt{2})$ .

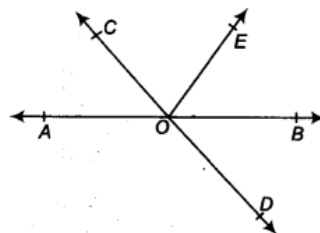
**OR**

Find  $(32)^{1/5}$

6. Find any three rational numbers between  $\frac{3}{5}$  &  $\frac{4}{5}$ .
7. State Euclid's 3<sup>rd</sup> postulate with any two examples.

**III. Answer the following questions ----- 3x2=6**

8. In figure, lines AB and CD intersect at O. If  $\angle AOC + \angle BOE = 70^\circ$  and  $\angle BOD = 40^\circ$ , find  $\angle BOE$  and reflex  $\angle COE$ .



9. Represent  $\sqrt{3}$  on number line.

**Answer the following questions----- 4x1=4**

10. Prove that "the sum of the angles of a triangle is  $180^\circ$ " (Angle sum property of a triangle).

\*\*\*\*\*All the Best \*\*\*\*\*

**Subject: Mathematics**  
**Class: 9<sup>th</sup> standard**

**FORMATIVE ASSESSMENT-I ACHIEVEMENT TEST**

**Max.Marks:20**  
**Duration: 1 hour**

SL NO	CONTENT/THEME	REMEMBERING					UNDERSTANDING					APPLICATION					SKILL			Total questions	TOTAL MARKS			
		MCQ	1M	2M	3M	4M	5M	MCQ	1M	2M	3M	4M	5M	MCQ	1M	2M	3M	4M	5M			2M	3M	4M
1	Number system									2(1)						2(1)					3(1)	4	8	
2	Introduction to Euclid's Geometry		1(1)						1(2)							2(1)						4	5	
3	Lines & angles		1(1)								3(1)	4(1)										3	8	
	MARKS		2(10%)						11(55%)						4(20%)					3(15%)			11	21

**Note:**

**1. In chart, inside the brackets are "Number of questions" and outside "marks".**

**WEIGHTAGE TO COGNITIVE LEVEL(DIMENSION-2)**

SL NO	COGNITIVE LEVELS	%	MARKS
1	REMEMBERING	10	2
2	UNDERSTANDING	55	11
3	APPLICATION	20	4
4	SKILL	15	3
	<b>TOTAL</b>	<b>100</b>	<b>20</b>

**TYPES OF QUESTIONS(D-3)**

SL NO.	TYPES OF QUESTIONS	No.	MARKS
1	MCQ	0	0
2	VSA(1M)	4	4
3	SA(2M)	3	6
4	LA(3M)	2	6
5	LA(4M)	1	4
6	LA(5M)	0	0
7	<b>TOTAL</b>	<b>10</b>	<b>20</b>

**LEVEL(DIMENSION-4)**

SL N	QUESTIONS LEVEL	%	MARKS
1	EASY	30	6
2	AVERAGE	50	10
3	DIFFICULT	20	4
	<b>TOTAL</b>	<b>100</b>	<b>20</b>