**DEPARTMENT OF PUBLIC INSTRUCTION - CHIKKAMAGALURU**

**MULTIPLE CHOICE QUESTIONS FOR PRACTICE**

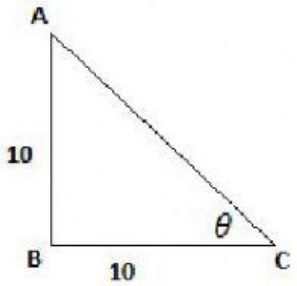
**SUBJECT: MATHEMATICS** **UNIT: APPLICATIONS OF TRIGONOMETRY** **CLASS:10**

**STUDENT NAME:**

**SCHOOL NAME:**

***Four alternatives /choices are given for each incomplete statement or a question. Click the correct answer.***

1. In the figure $\theta$ is ----------




A) $30^0$ B) $45^0$ C) $60^0$ D) $90^0$

2. The height of the tower is 10m. what is the length of its shadow when sun's altitude is $45^0$------

A) 10m. B) 5m C)15m D)20m

3. If the ratio of the height of the tower and the length of its shadow is $\sqrt{3}$ :1, what is an angle of elevation----------

A) $30^0$ B) $45^0$ C) $60^0$ D) $90^0$

4. A ladder whose length is 20m is touched the wall at the height of 10m . what is an angle made by the ladder with the ground? To solve this which one of the following trigonometric ratio is correct.

A) Tan$\theta$ B) Sin$\theta$ C) Cos$\theta$ D) Cot$\theta$

5. The angle of elevation of the top of the tower from a point on the ground, which is 20m away from the foot of the tower is $60^0$ what is the height of the tower ?

A)$20\sqrt{3}$ B) $20\sqrt{2}$ C)$3\sqrt{20}$ D) $\sqrt{10}$

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6. A tall building casts a shadow of 300m long when the sun's altitude is $45^0$.

Find the height of the tower

A) 300m B)100m C)200m D)500m

7. An angle formed by the line of sight with the horizontal when the point being viewed is below the horizontal is called----------

A) Vertical Angle B) Angle Of Depression C) Angle Of Elevation D) Obtuse Angle

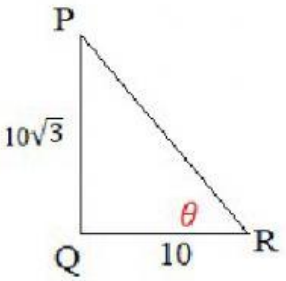
8. The angle formed by the line of sight with the horizontal when the point being viewed is above the horizontal is called--------

A) Vertical Angle B) Angle Of Depression C) Angle Of Elevation__D) Obtuse Angle

9. If the ratio of a vertical pole and its shadow is $(1:\sqrt{3})$ the angle of elevation of the sun is---------

A) $30^0$ B) $45^0$ C) $60^0$ D) $90^0$

10. In this figure $\theta$ is ----------




A) $30^0$ B) $45^0$ C) $60^0$ D) $90^0$

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