

Test / Exam Name: Math's Chapter 9 Mcq

Standard: 10th

Subject: Mathematics

Student Name: .....

Section: .....

Roll No.: .....

Questions: 2 Time: 00:02 hh:mm Marks: 2

## Instructions

1. Attempt all questions.

**Q1. Directions:** In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

**1 Mark**

**Assertion:** If the length of shadow of a vertical pole is equal to its height, then the angle of elevation of the sun is  $45^\circ$

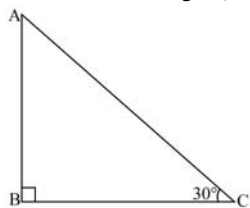
**Reason:** According to pythagoras theorem,  $h^2 = l^2 + b^2$  where h = hypotenuse, l = length and b = base

1. Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
2. Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
3. Assertion (A) is true but reason (R) is false.
4. Assertion (A) is false but reason (R) is true.

**Q2. Directions:** In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

**1 Mark**

**Assertion:** In the figure, if  $BC = 20\text{m}$ , then height  $AB$  is  $11.56\text{m}$ .



**Reason:**  $\tan \theta = \frac{AB}{BC} = \frac{\text{perpendicular}}{\text{base}}$  where  $\theta$  is the  $\angle ACB$

1. Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
2. Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
3. Assertion (A) is true but reason (R) is false.
4. Assertion (A) is false but reason (R) is true.

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