

# 18. Trigonometry

Q. ID: ITISKILL6296MG

May 2026

Govt ITI Beerihundi

Question Paper

Duration: 30 Mins

Total Marks: 8

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Student Name: _____	Roll No: _____
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1. What is the height of the building if a ladder at 45 Degree touches the building placed 16 m from the base of the building?

- A) 16 m
- B) 18 m
- C) 15 m
- D) 17 m

2. What is the value of  $\tan \theta$  if  $\sin \theta = 4/5$  ?

- A) (3/4)
- B) (4/5)
- C) (5/3)
- D) (4/3)

3. How many degrees is equal to one radian?

- A)  $(180)/(\pi)$
- B)  $(\pi)/(180)$
- C)  $(360)/(\pi)$
- D)  $(\pi)/(360)$

4. Which is equal to  $\sin \theta$ ?

- A) Hypotenuse/Opposite side
- B) Opposite Side/Hypotenuse
- C) Hypotenuse/Adjacent side
- D) Adjacent Side/Hypotenuse

5. What is the angle of elevation of the top of a light house of

15 m height seen at a point 15 m away from the base?

- A) 45 Degree
- B) 30 Degree
- C) 90 Degree
- D) 60 Degree

6. What is the height of the wall where the ladder touches the wall if the ladder is 2.5 m long makes an angle of 60 Degree with the ground?

- A) 4.13 m
- B) 4.23 m
- C) 4.43 m
- D) 2.165 m

7. What is equal to  $\tan \theta$ ?

- A) Adjacent Side/Hypotenuse
- B) Opposite Side/Hypotenuse
- C) Opposite Side/Adjacent Side
- D) Adjacent side/Opposite side

8. What is equal to  $\cos \theta$ ?

- A) Adjacent Side/Hypotenuse
- B) Hypotenuse/Opposite Side
- C) Hypotenuse/Adjacent Side
- D) Opposite side/Hypotenuse