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Take HEIGHT & DISTANCE MCQ Quiz To test your Knowledge

Below are a few HEIGHT & DISTANCE MCQ tests that check your basic knowledge of Aptitude. This **HEIGHT & DISTANCE Test** contains around 20 questions of multiple choice type with 4 options. You have to select the right answer to a question. You can see the correct answer by clicking the view answer link.

Q1. Ramesh and Suresh's mud forts have heights 8cm and 15 cm. They are 24 cm apart. How far are the fort tops from each other?

- **A. 25 cm**
- B. 24 cm
- C. 31 cm
- D. 24.5 cm

Q2. Due to sun, a 6ft man casts a shadow of 4ft, whereas a pole next to the man casts a shadow of 36ft. What is the height of the pole?

- **A. 54 ft**
- B. 72 ft
- C. 63 ft
- D. 48 ft

Q3. When height of a tree is equal to the length of its shadow, what is the angle of elevation of the sun?

- A. 90 deg
- B. 30 deg
- C. 60 deg
- **D. 45 deg**

Q4. A tree breaks and falls to the ground such that its upper part is still partially attached to its stem. At what height did it break, if the original height of the tree was 24 cm and it makes an angle of 30° with the ground?

- **A. 8 cm**
- B. 12 cm
- C. 9.5 cm
- D. 7.5 cm

Q5. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. find the length of the ladder?

- A. 4.6 m
- B. 7.8 m
- **C. 9.2 m**
- D. 2.3 m

Q6. From a point P on a level ground, the angle of elevation of the top tower is 30° . If the tower is 100 m high, the distance of point P from the foot of the tower is -

- **A. 173 m**
- B. 200 m
- C. 149 m
- D. 156 m

Q7. From a point C on a level ground, the angle of elevation of the top of a tower is 30 degree. If the tower is 100 meter high, find the distance from point C to the foot of the tower.

- A. 172 meter
- B. 170 meter
- **C. 173 meter**
- D. 167 meter

Q8. The angle of elevation of a ladder leaning against a wall is 60 deg and the foot of the ladder is 4.6 M away from the wall. find the length of the ladder?

- **A. 9.2 M**
- B. 7.9 M
- C. 2.9 M
- D. None of the above

Q9. If a vertical pole 6 m high has a shadow of length $2\sqrt{3}$ m, find the angle of elevation of the sun?

- A. 40 degree
- **B. 60 degree**
- C. 50 degree
- D. 70 degree

Q10. The shadow of a building is 20 m long when the angle of the elevation of the sun is 60. find the height of the building?

- A. 34.46 m
- **B. 34.64 m**
- C. 46.64 m
- D. All of the above

Q11. The angle of elevation of a moon when the length of the shadow of a pole is equal to its heights is -

- A. 30
- B. 40
- **C. 45**
- D. 50

Q12. From a tower of 80 m high, the angle of depression of a bus is 30 degree . How far is the bus from the tower?

- A. 40 m
- B. 46.24 m
- **C. 138.4 m**
- D. 160 m

Q13. The angle of elevation of the sun, when the length of the shadow of a tree 3 times the height of the tree, is -

- **A. 30°**
- B. 10°
- C. 50°

- D. 70°

Q14. When the sun's altitude changes from 30° to 60° , the length of the shadow of a tower decreases by 70m. What is the height of the tower?

- A. 60.6 m
- B. 55.6 m
- C. 65.6 m
- D. 70.6 m

Q15. The top of a 15 metre high tower makes an angle of elevation of 60° with the bottom of an electronic pole and angle of elevation of 30° with the top of the pole. What is the height of the electric pole?

- A. 15 meters
- B. 10 meters
- C. 20 meters
- D. 25 meters

Q16. The angle of elevation of the top of the tower from a point on the ground is 35° . If the point of observation is 20 meters away from the foot of the tower, what is the height of the tower?

- A. 15 m
- B. 10 m
- C. 20 m
- D. 25 m

Q17. An observer 1.6 m tall is 203 away from a tower. The angle of elevation from his eye to the top of the tower is 30° . The heights of the tower is -

- A. 23.2 m
- B. 24.72 m
- C. 21.6 m
- D. None of these

Q18. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. find the length of ladder?

- A. 4.6 m
- B. 7.8 m
- C. 9.2 m
- D. 2.3 m

Q19. If a 1.5 m tall girl stands at a distance of 3 m from a lamp-post and casts a shadow of length 4.5 m on the ground, then find the height of lamp-post?

- A. 2 m
- B. 2.5 m
- C. 1.5 m
- D. None of the above

Q20. A man in a boat is rowing away from a cliff (180 meters high), take 90 seconds to change angle of elevation of the top of cliff from 30° to 45° . find the speed of the boat?

- A. $2(\sqrt{3}-1)$ m/sec
- B. $2\sqrt{3}$ m/sec
- C. $(\sqrt{3}-1)$ m/sec
- D. None of the above

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