1.	Find the angle of eleva A. 30°		shadow of a pole of 18 m h C. 45°	eight is 6√3 m long? D. None of these			
2.	The angle of elevation A. 30-degree		gth of the shadow of a tree C. 60-degree	is v3 times the height of tree, is: D. 9 degree			
3.	The angle of elevation wall. The length of the		st a wall is 60° and the foot	of the ladder is 4.6 m away from the			
	A. 2.3 m	B. 4.6 m	C. 7.8 m	D. 9.2 m			
4.	The angle of elevation A. 30°	of the sun, when the leng B. 45°	gth of the shadow of a tree C. 60°	is equal to the height of the tree, is: D. None of these			
5.	The angle of elevation wall. The length of the		st a wall is 60º and the foot	of the ladder is 12.4 m away from the			
	A. 14.8 m	B. 6.2 m	C. 12.4 m	D. 24.8 m			
6.		t reaches the top of a wal from the wall (V3=1.73).	l and makes an angle of 60°	with the wall. Find the distance of			
	A. 4.32 m	B. 17.3 m	C. 5 m	D. 8.65 m			
7.	From a point P on a level ground, the angle of elevation of the top of a tower is 30° If the tower is 100 m high, the distance of point P from the foot of the tower is:						
	A. 149 m	B. 156 m	C. 173 m	D. 200 m			
8.	From a point 20 m away from the foot of a tower, the angle of elevation of the top of the tower is 30°. The height of the tower is:						
	A. 10√3 m	B. 20√3 m	C. 10/V3 m	D. 20/v3 m			
9.	An observer 1.6 m tall is 20V3 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. 21.6 m	B. 23.2 m	C. 24.72 m	D. None of these			
10.		• • • • • • • • • • • • • • • • • • • •	sion of a bus is 30°. How far				
	A. 40 m	B. 138.4 m	C. 46.24 m	D. 160 m			
11.	. The thread of a kite is 120 m long and it is making 30° angular elevation with the ground. What is the height o the kite?						
	A. 60 m	B. 20 m	C. 40 m	D. 10 m			
12.	The shadow of a build building.	ding is 20 m long when	the angle of elevation of t	he sun is 60º. Find the height of the			
	A. 34.64 m	B. 38.64 m	C. 42.64 m	D. 49.64 m			
13.	A tower is 100v3 metro A. 50º	es high. Find the angle of B. 40º	elevation of its top from a p	point 100 metres away from its foot. D. 60º			
14.	. An observer 2 m tall is 10 √ 3 m away from a tower. The angle of elevation from his eye to the top of the tower is						
	30°. The height of the	tower is:	C 14 m	D 16 m			
	→ 10.111	B 17 III	. 141 111				

15. When the sun's altitude changes from 30° to 60°, the length of the shadow of a tower decreases l is the height of the tower?						
	A. 55.6 m	B. 60.6 m	C. 65.6 m	D. 70.6 m		
16.	The angle of elevation wall. The length of the		a wall is 60º and the foot o	of the ladder is 12.4 m away from the		
	A. 20.8 m	B. 22.8 m	C. 24.8 m	D. None of these		
17.	_	on of the top of a tower from elevation of the top of the tov		ne observer moves 40 m towards the eight is:		
	A. 44.6 m	B. 54.6 m	C. 64.6 m	D. 74.6 m		
18.	The altitude of the s A. 10√3 m	un at any instant is 60º. Find t B. 20√3 m	the height of the vertical p C. 30V3 m	ole that will cast a shadow of 30 m. D. 40v3 m		
19. A vertical toy 18 cm long casts a shadow 8 cm long on the ground. At the same time a pole casts a shad long on the ground. Then find the height of the pole?						
	A. 1080 cm	B. 180 m	C. 108 m	D. 118 cm		
20.	_	igh casts a shadow of length 3.75 m under similar condition		e height of a building, which casts a		
	A. 14 cm	B. 13.5 cm	C. 12.5 cm	D. 11.4 cm		
21.	If the angle of elevation meters. The height of		30° to 45° , the length of the	ne shadow of a pillar decreases by 20		
	A. 20 (V3-1) m	B. 20 (√3+1) m	C. 10 (v3-1) m	D. 10 (v3+1)		
22.	The shadow of the tower becomes 60 meters longer when the altitude of the sun changes from 45° to 30° . Then the height of the tower is:					
	A. 20(√3+1) m	B. 24 (√3+1) m	C. 30 (√3+1) m.	D. 30 (v3-1) m		
23.		and 60°. If the height of		ne top of the tower, their angles of e distance between the objects is		
	A. 272 m	B. 284 m	C. 288 m	D. 254 m		
24.	_	on of the top of a lighthouse (at is the distance between the	_	s on the ground on its opposite sides		
	A. 45 m	B. 30 m	C. 103.8 m	D. 94.6 m		
25.				d is 30° . On moving a distance of 20 eases to 60° . The height of the tower		
	A. √3 m	B. 5√3 m	C. 10 V 3 m	D. 20√3 m		

26.	ground angle of 30°. Fi	nd the height at whic		pper part, not completely separ	ated meets the		
	A. 10 ft.	B. 5 ft.	C. 15√3 (2-√3) ft. D. 5√3 ft.			
27.	man's eye. The man we becomes 60°. What is	valks some distance the distance betweer	towards the tower to n the base of the tower	•			
	A. Data inadequate	B. 8 units	C. 12 units	D. None of these			
28.	Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:						
	A. 173 m	B. 200 m	C. 273 m	D. 300 m			
29.	. From the top of a hill 100 m high, the angles of depression of the top and bottom of a pole are 30° and 60° respectively. What is the height of the pole?						
	A. 46.67 m	B. 56.67 m	C. 66.67 m	D. None of these			
30.	•	•	ght line with it are com	d Q at distance of 'a' and 'b' re pplementary. The height of the t D. a^2 b^2	•		
24	The levels of the char		and lawed amazined the		مالدالما مالمالمالمالمالمالمالمالمالمالمالمالمالم		
31.	sun changes from 45° t		_	creases by 10 metres when the	aititude of the		
	A. 5√3 m	B. 10(√3 + 1) m	C. 5(√3 + 1) m	D. 10√3 m			
32.	• •	owards the tower a	nd then his angle of e	h makes an angle of elevation of the tow D. 20V3 m			
33.	The angle of elevation the tower it becomes 6	·	•	ground is 30° and moving 70 i	meters towards		
	A. 10 meter	B. 10/√3 meter	C. 10V3 meter	D. 35V3 meter			
34.	did it break, if the origi			ill partially attached to its stem. ses an angle of 30° with the grou D. 7.5 cm			
35.	The top of a 15 m. high	h tower makes an an	gle of elevation of 60	degree with the bottom of an e	lectric pole and		
	an angle of 30 degree v	with the top of the po	ole. What is the height	of the pole?			

36. From the top of a temple near a river the angles of depression of both the banks of river are 45° & 30°. If the height of the temple is 100 m then find out the width of the river.

D. 5 m

C. 11 m

A. 50(v3-1)m

A. 12 m

B. 10 m

- B. 100(√3-1)m
- C. 200(v3-1)m
- D. 300(v3-1)m
- 37. A toy leaves the earth at a point A and rises vertically at uniform speed. After two minutes of vertical rise boy finds the angular elevation of the balloon as 60°. If the point at which boy is standing is 150 m away from point A, what is the speed of the toy?
 - A. .98 m/s
- B. 1.08 m/s
- C. 1.16 m/s
- D. 2.16 m/s
- 38. The angle of elevation of an aeroplane from a point on the ground is 60°. After 15 second flight, the elevation changes to 30°, If the aeroplane is flying at a height of 1500V3 m, find the speed of the plane:
 - A. 300 m/sec
- B. 200 m/sec
- C. 100 m/sec
- D. 150 m/sec
- 39. Two pillars of equal height are on either side of a road, which is 120m wide. The angles of elevation of the top of the pillars are 60° and 30° at a point on the road between the pillars. Find the height of the pillars.
- A. 10√3 m
- B. 30√3 m
- C. 20√3 m
- D. None of these
- 40. Two pillars of equal height are on either side of a road, which is 120m wide. The angles of elevation of the top of the pillars are 60° and 30° at a point on the road between the pillars. Find the height of the pillars.
 - A. 25√3 m

- B. 30√3 m
- C. 10√3 m
- D. None of these

Answer Key

1(B)	2(A)	3(D)	4(B)	5(D)	6(D)	7(C)	8(D)	9(A)	10(B)
11(A)	12(A)	13(D)	14(B)	15(B)	16(C)	17(B)	18(C)	19(C)	20(C)
21(D)	22(C)	23(D)	24(D)	25(C)	26(B)	27(A)	28(C)	29(C)	30(A)
31(C)	32(D)	33(D)	34(B)	35(B)	36(B)	37(D)	38(B)	39(B)	40(A)