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Paper – 2 (**Height and Distances**)

1.		se 60 metres high with its base as foot of the light house (in mt.)	at the sea level, the angle of depr	ression of a boat 15°. The		
		(b) $(2 - \sqrt{3})60$	$(c)(2+\sqrt{3})30$	(d) $(2 - \sqrt{3})60$		
2	A flagstoff stands in the con-	$(b) (2 - \sqrt{3}) 00$	diagonal is 1200 m, and subtends			
۷.		e field. The height of the flagstaf		s aligies 13 and 43 at the		
	•					
_		(b) $300\sqrt{2 + \sqrt{3}}$ m		(d) 400 m		
3.	In a cubical hall ABCDPQRS with each side 10 m, G is the centre of the wall BCRQ and T is the mid point of the side					
	AB. The angle of elevation of			. 1		
	(a) $\sin^{-1} \frac{1}{\sqrt{3}}$	(b) $\cos^{-1} \frac{1}{\sqrt{3}}$	(c) $\tan^{-1} \frac{1}{\sqrt{3}}$ on the deck, an angle whose tan	(d) $\cot^{-1} \frac{1}{\sqrt{3}}$		
4.	The upper three-fourths of s	ship's mast subtends, at a point	on the deck, an angle whose tan	gent is 0.75. If the whole		
	mast subtends an angle θ at	the same point, then $\tan \theta =$		40		
	(a) 2	(b) 1/2	(c) 3/4	(d) 1		
5.			g at a distance of 100 m. From the			
	their tops to be in line and inclined at an angle of $tan^{-1}(0.6)$ to the horizon. The distance of the person from the higher					
	chimney is:					
	(a) 100 m	(b) 150 m	(c) 75 m	(d) None of these		
6.	An aeroplane flying horizontally 1 km above the ground is observed at an elevation of 60°. If after 10 sec, the elevation					
		ne uniform speed per hour of the		7 2 2		
	(a) $24\sqrt{3}$ k/h	(b) $8\sqrt{3}$ k/h	(c) $16\sqrt{3}$ k/h	(d) None of these		
7.						
	β respectively. The height of	f the cliff is:				
	(a) $\frac{100 \tan \beta}{\cot \beta - \cot \alpha}$	(b) $\frac{100 \cot \beta}{}$	(c) $\frac{100 \cot \beta}{\cot \beta - \cot \alpha}$	(d) None of these		
Q	$\cot \beta - \cot \alpha$	γ tan β – tan α	$^{\circ}$ cot β -cot α	maters towards the towar		
	The angle of elevation of the top of a tower at any point on the ground is 30° and moving 200 meters towards the tower it becomes 45°. The height of tower is:					
		(b) $100(\sqrt{3}+1)m$	(a) 10 / \sqrt{2}m	(d) None of these		
0	(a) 10 m.			(d) None of these		
9.		ectively. The ratio of the heights	een from the middle point of the l	ine joining the root of the		
	(a) 2:1.	(b) 3:1	(c) 3:2	(d) 3:1		
10		. ,	points 1 km. apart, the angles of e	` /		
10.	of him are 30° and 75°. The		points 1 km. apart, the angles of e	devation of a pole in from		
			(c) $500(\sqrt{2}+1)$ m	(4) $F00(\sqrt{2} - 1) =$		
	(a) $200(\sqrt{5} + 1)$ III	$(0) 200 (\sqrt{3} - 1) \text{ m}$	$(0) 300 (\sqrt{2} + 1) \text{m}$	(a) $500(\sqrt{2}-1)$ m		
		_				
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Answer Key will be available in next paper.

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Answer Key Paper 1

01.D	02.B	03.C	04.D	05.B
06.A	07.A	08.A	09.A	10.D

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