Shop No. 1, Rangoli, Vasant Utsav,		
Thakur Village, Kandivali (E)		
Mumbai - 400 101. Secti	on B	
Mob. 9821263056. Answer any fo	our questions	
And		
Question 5		
رور) State:		3
State principle of moments		
Define uniform circular motion	to les valocity ratio 5. In	3
Draw a diagram of block and tackle system indicate clearly the points and effort E. Also mark the tension	of application and the directions of the	
c)/Give scientific reason for the following:		4
In a single fixed pulley the velocity i	ratio is always more than the mechanical	T
advantage.  A spanner has a long handle.		
/ /		
Question 6		
		3
Define critical angle:	SEMESTAL CONTROL OF THE PROPERTY OF THE PROPER	
(I) The absolute refractive index of glas	s is 1.5. What do you mean by this	
statement?  (ii) The lower block of a block and back!	e pulley system must be of negligible	• ,, ,
weight. Give reason.	e pulley system must be of negligible	
	Alr	
60' \ 421	30	4
A/B	<u> </u>	-
TATE		
WATER		
P		
Figure shows a point source P inside a water	er container Three rave A. B. C. starting	
noni,the source P are snown upto the water	of sufface. Show in the diagram the nath	3
of these rays after striking the water surface 489. Name the phenomenon which the rays	ce. The critical angle for water air surfaces	
	The The Top Control to People of the Control of the	
A lens forms an upright and diminished in show the image formation.	mage of an object. Draw a ray diagram to	
Question 7		
An object to placed at a distance of 20s		3
An object is placed at a distance of 20cm. Find the position of the in	nage and the magnification of the image.	
What is a fuse? Where is it connected?		3
(*) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
lA.	lal	·
	4	. •
		4
/_Air		•
Figure shows two tuning forks A and B	of the same frequency mounted on two	
sound boxes. The fork A is set Into vibi	ration:	
Name the vibration that the air in the	he sound box undergoes and comment on	٠,
Its loudness along with the reas	on.	
	fork B undergoes and comment on its	
loudness and amplitude.		
The state of the s	and the same of th	

