	Page No.  Date	
	Ultrasonic Sensors. (Numericals. on Sensors.	
	= ta-t = 1.8° 0.915 = 1.085 mm	8087
۵.۱	f= 20 KHZ ci, Y=11.6 X10" N/m2; P:	7.23x/6 Kg/m3
	The second of th	4.0
	$f = \frac{1}{2} \frac{1}{P} \frac{1}{P} \Rightarrow \frac{1}{2} \frac{1}{P} \frac{1}{P}$	
	$\frac{11.6 \times 10^{10}}{9} = 1$	
	- 0.1 m = 10.cm. 10.	
	THE CALL IN THE COLUMN TO THE	
Q.2.	[= 40 mm; ]= 7.25 x103 kg/m3; y=11.5 x1	00 N/m2
- 11	$f = 1 \sqrt{7} = 1 = 15 \times 10^9$ $21 \sqrt{9} = 2 \times 40 \times 10^3 \sqrt{7250}$	
	$21\sqrt{P} \qquad 2 \times 40 \times 10^{3} \sqrt{7250}$	
	=01×49.78×KHz.) -	
	500 x 103	
	Yes, US waves can be produced by H	re
	Yes, US waves can be produced by H magnetostriction oscillator as the frequent obtained here is 49.78 KHz which is	cy
	obtained here is 49.78 KHZ which is	none
-0-	than 20 KHZ	
W 2	1 12 2	0
Q·5.	t,= 1.8 mm; Y= 8 x10° N/m²; ρ= 2650 kg/m	
	a) $f_1 = 1$   $Y = T_1 = T_2 = T_1 = T_2 = T_2 = T_3 = T_3$	
	a) $f_1 = \frac{1}{2+\sqrt{3}} \frac{7}{5} = \frac{11}{2} = \frac{1}{2} \frac{8 \times 10^{10}}{2650}$	
	= 1.37 MHZ 2 000 =:T	
	b) If 2 = 0 1 - do 74 = 0 = to = 1 7	0.6
	2+2 VP 2f2 VP	
	to = 3° /1/21 8 2.5/8 ×10'0	





