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J.E.E./A.I	.P.M.T. Foundation - XI Physics Works	heet
Time: 30 min	Chapter#15: Waves-02	Full Marks: 20
<u>Instructions:</u> 1. All questions are compulsory. 2. Please give the explanation for the answer where applicable.		
Q1 - What are pressure waves?		(1 Mark)
Q2 - Is the phenomena of beats	s observable in case of two light waves of nearly	equal frequencies? (1 Mark)
Q3 - Will there be a doppler effect if source and listener both move in the same direction with the same speed?		
speed.		(1 Mark)
Q4 - At what temperature, veloo	city of sound at 27 ⁰ C doubles?	(2 Marks)
	ider a tension of 200 N. The length of the stretch end of the string, how long does the disturbance	e take to reach the other
		(2 Marks)
Q6 - An open organ pipe has fui sound is 330m/sec.	ndamental frequency of 300 Hz. Find the length	of the pipe. Speed of
		(2 Marks)
Q7 - The extension in the string obeying Hook's law is x. The speed of sound in string is v. If the extension in the string is increased to 1.5x then find the speed of sound.		string is v. If the
		(3 Marks)
Q8 - Two tuning forks A and B set in vibration gives 4 beats per second. If a prong of the fork A is the beats per second is reduced to 2. Determine the frequency of A if that of B is 250 Hz.		
		(3 Marks)
Q9 - An observer moves toward the percentage increase in the a	ls a stationary source with a velocity 1/5 of the vapparent frequency?	velocity of sound. What is
		(5 Marks)

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