XI Physics Worksheet

Time: 30 min	Chapter#14: Oscillations-01	Full Marks: 20
Instructions: 1. All questions are of 2. Please give the expectation of the state of the expectation of the expe	compulsory. splanation for the answer where applicat	ole.
Q1 - If the length of a sir	nple pendulum is doubled what will be its new tim	ne period? (1 Mark)
Q2 - In which condition t	he motion of a simple pendulum is simple harmon	nic? (1 Mark)
Q3 - A pendulum clock is pendulum clock is taken	observed to give correct time at the equator. Whato the pole of the earth?	at will happen if the same (1 Mark)
	ly suspended from a spring of negligible mass. Th quency of the system if a mass 4m is suspended f	5
Q5 - If the period of oscil	lation of mass m suspended from a spring is 2s, fi	ind the period of mass 4m? (2 Marks)
	uniform cross section contains water upto a heigh hen released it performs SHM up and down. Calcuvibration.	
		(2 Marks)
Q7 - At what distance fro P.E ?	m the mean position is the kinetic energy in simp	le harmonic oscillaton equal to
		(3 Mai Ks)
on a circular track of radi	of length I and having a bob of mass m is suspendus r with a uniform speed v. If the pendulum mak orium position what will be its time period?	9
		(3 Marks)
without friction or damping	a spring is free to oscillate, with angular frequencing. It is pulled to a distance x ₀ and pushed toward ine the amplitude of the resulting oscillations in te	ds the centre with a velocity

(5 Marks)