FAST National University of Computer and Emerging Sciences, Lahore

Instrument: Quiz-2

Course: EE–117: Applied Physics

Session: Fall 2019 Section: B Date: 16 October, 2019	Instructor: Muhammad Shiraz Ahmad Total Points: 25 Duration: 20 minutes.	
Name:	Roll No.:	
Note: At the slightest suspicion of cheating,	your submission will be marked zero.	
	$6 \mathrm{m}) \cos \left[(3\pi \mathrm{rad} \mathrm{s}^{-1}) t + \pi/3 \mathrm{rad} \right]$ gives the simple harmonic moan displacement, (b) velocity, (c) acceleration, and (d) phase of the and (f) period of the motion?	

Q. 2 (5 points) A balloon performs SHM in a vertical line with a period of 40 seconds. Its height varies 800 and 850 meters. Find the speed of the balloon when it is at 820 meters.	
	between

(o points)	Derive the general expression for the time	me period of forsional	rendurum.