FAST National University of Computer and Emerging Sciences, Lahore

Instrument: Quiz-2

Course: EE–117: Applied Physics

Session: Fall 2019 Section: F 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.
with amplitude 35.0 cm, the oscillator rep	ock of mass $0.500\mathrm{kg}$ connected to a spring. When set into oscillation peats its motion every $0.500\mathrm{s}$. Find the (a) period, (b) frequency, (c) maximum speed, and (f) magnitude of the maximum force on the

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

Q. 3 (8 points) Show that time period of simple pendulum is

$$T = 2\pi \sqrt{\frac{L}{g}}$$