

FACULTY OF MECHANICAL ENGINEERING
QUIZ 1

SESSION 2017-2018 I

Mechanical Vibrations (BMM 3553)

CO:1

Total marks: 10

Q1 (10 Marks)

A 50-kg block moves horizontal as shown in **Figure 1**. The block is pulled 40 mm to the left from its rest position and released. Determine the period of oscillation, the maximum velocity and acceleration of the block.

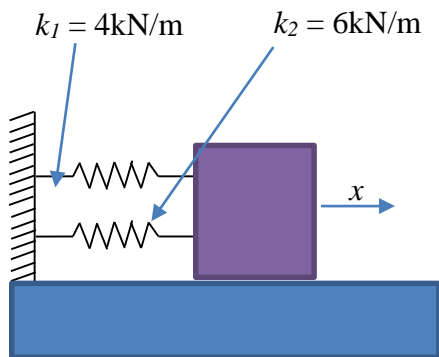


Figure 1