

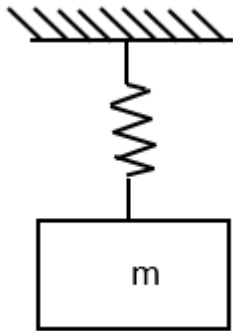
**BMM3553: MECHANICAL VIBRATION**

**SEMESTER I-2017/2018**

**QUIZ 2**

**Q1 (10 MARKS)**

A spring-mass system as shown in Figure 1 is subjected to 70 N harmonic force with 10 Hz frequency. If the weight of mass is 60 N and spring stiffness is 4500 N/m, determine the steady state response of the system.



**Figure 1**