



- Q-5** **Attempt all questions** (14)
- A** Explain 'column jacketing' in details with neat sketch. 07
- B** What is base isolation? Explain concept of base isolation. Discuss various seismic isolators. 07
- Q-6** **Attempt all questions** (14)
- A** What are the causes and effects of liquefaction. 07
- B** Write brief note on sedimentary rock and metamorphic rock. 07
- Q-7** **Attempt all questions** (14)
- A** Give the classification of fold and faults. 07
- B** Derive expression for the response of SDOF free damped structural system. 07
- Q-8** **Attempt all questions** (14)
- A** Explain DVA curves in detail. 07
- B** What is mathematical modeling? Enlist the dynamic parameters of model. Prepare mathematical model of the system shown in the Figure 1 and find natural frequency of the system. 07

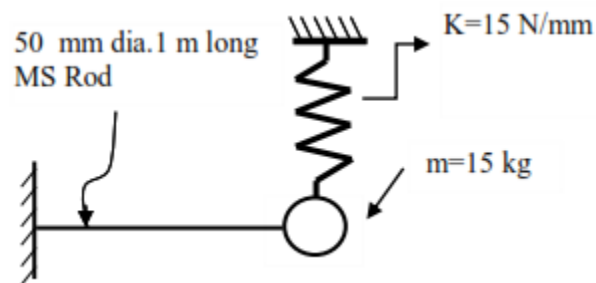


Figure 1.