

- 15** A mass is hung from a ceiling by means of a spring. The spring-mass system is then set into free oscillation by means of an initial pull below the position of equilibrium extension.

Which of the following actions will **not** increase the period of oscillation?

- A** immerse the mass in beaker of oil
- B** perform the oscillations in vacuum
- C** replace the mass with another of larger mass
- D** replace the spring with another of lower spring constant