CLASS- 7 (PHYSICS) Motion and Time Activity-1 Time Ticker!

Viva Voce

- 1. If the mass of the pendulum bob is doubled, the period of a simple pendulum will
 - a) Increase
 - b) Decrease
 - c) Stay the same
 - d) can't say
- 2. If the length of the string is increased, the period of a simple pendulum will
 - a) Increase
 - b) Decrease
 - c) Stay the same
 - d) can't say
- 3. If the amplitude of the oscillations is reduced to half, the period of simple pendulum will
 - a) remain the same
 - b) increase
 - c) decrease
 - d) become infinity

4. The period of a simple pendulum is 2 s. If you want to double the period (4s), which string will you need?

- a. 1 m
- b. 2 m
- c. 3 m
- d. 4m

5. If an astronaut takes a pendulum to the moon (g=1.6N/kg), the period compared to that on Earth will-

- a. Increase
- b. Decrease
- c. Stay the same
- d. Either increase or decrease

6. For a simple pendulum the time period of one oscillation is given by

- a. 2 π √ g/l
- b. $2 \pi \sqrt{2l/g}$
- c. 2 √ l/ 2g
- d. $2 \pi \sqrt{I/g}$
- 7. The length of a Second's pendulum, is
 - a. 99.0 cm

- b. 99.4 cm
- c. 100 cm
- d. 101 cm

8. In order to double the period of a simple pendulum, the length of the string should be-

- a) halved
- b) doubled
- c) quadrupled
- d) none of the above
- 9. The type of energy possessed by a simple pendulum, when it is at the mean position is:
 - (a) Kinetic energy
 - (b) Potential energy
 - (c) Kinetic + Potential energy
 - (d) Sound energy

10. If a pendulum clock is taken to mountain top it-

- a) lose time
- b) gain time
- c) first lose and then gain time
- d) first gain and then lose time
- Answer Key:
 - 1. c) stay the same
 - 2. a) increase
 - 3. a) remain the same
 - 4. d) 4m
 - 5. b) decrease
 - 6. d) $2 \pi \sqrt{l/g}$
 - 7. b) 99.4 cm
 - 8. c) quadrupled
 - 9. a) kinetic energy
 - 10. a) lose time