# Physics 10th Class English Medium Online Test

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | In simple Harmonic motion, the acceleration of the body is _____ proportional to the displacement. | A. Inversely<br>B. Directly<br>C. Equally<br>D. None of these |
| 2 | At extreme position potential energy of the pendulum is | A. Maximum<br>B. Miimum<br>C. a and b<br>D. zero |
| 3 | It mean position kinetic energy of the ball is: | A. Minimum<br>B. Zero<br>C. Maximum<br>D. None of these |
| 4 | At mean position of pendulum, the potential energy of the pendulum is: | A. Maximum<br>B. Minimum<br>C. Much more<br>D. Both a and c |
| 5 | The displacement produced in the spring directly proportional to force is called: | A. Hook's law<br>B. Boyle's law<br>C. Newton's law<br>D. both 'b' and 'c' |
| 6 | The maximum displacement from mean position is called: | A. Maximum height<br>B. Time period<br>C. Amplitude<br>D. Intervel |
| 7 | The time period of simple pendulum can be calculated by: | A. T = 2π√L/g<br>B. T = 2 π √m/k<br>C. T = 2 π √g/L<br>D. T = 2 π √K/m |
| 8 | The time period of mass attached with a spring can be calculated by: | A. T = 2π√L/g<br>B. T = 1/T<br>C. T =2π√g/L<br>D. T = 2π√m/k |
| 9 | The time required to complete one round trip (vibration) abut mena position is called: | A. Time period<br>B. Freqency<br>C. Amplitude<br>D. None of these |
| 10 | The ratio of external force applied on the spring to displacement is called: | A. Hook's law<br>B. Constant<br>C. Spring constant |
| 11 | If the distance is nspring is 'x' of mass 'm' attached with a spring then restoring force is: | A. F =ma<br>B. F =kx<br>C. F = mx<br>D. F= m/a |
| 12 | The unit of spring constnat is: | A. m<br>B. kg<br>C. Nm<sup>2</sup><br>D. Nm<sup>-1</sup> |