.1.Length of a simple pendulum executing simple harmonic motion is increased by 21%. The percentage increase in the time period of the pendulum of increased length is
      A) 10%
      B) 1%
      C.21%
      D.42%

2.   If a simple harmonic oscillator has got a displacement of 0.02 meter and acceleration equal to 2 m/s^2 at any time, the angular frequency of the oscillator is equal to
      a) 10 rad/s
      b) 1 rad/s
      c) 100 rad/s
      d) 0.1 rad/s

3.If a hole is bored along the diameter of the earth and a stone is dropped into the hole, then
      a) The stone reaches the centre of the earth and stops there.
      b) The stone reaches the other side of the earth and stops there.
      c The stone executes simple harmonic motion about the centre of the earthll)
      dThe stone reaches the other side of the earth and escapes into space.

4.Energy is not carried by:
      mm)   Longitudinal progressive eaves
      nn) Electromagnetic waves
      oo) Transverse progressive waves
      pp) Stationary waves

5.The equation of wave traveling along string is y = 3cosπ (100t - x) in C.G.S. unit. The wavelength is
      a) 1 m
      b) 2 cm
      c) 2m
      d 5 cm

6.The standing waves can be produced
      a) on a string clamped at both the ends
      vv) on a string clamped at one end and free at the other end.
      b)   when the incident wave gets reflected from a wall.
      c) when two identical waves with a phase difference of K are moving in the same direction.