PART-A

1. Define frequency of a particle in S.H.M.

2. Define Second's pendulum.

3. Define reverberation.

4. What is the beat frequency between a 305 Hz and a 308 Hz sound?

PART-B

5(a). The frequency of a body in S.H.M. is 9 Hz and amplitude is 0.1 m. Find the maximum velocity.

----- OR -----

5(b). Outline the three laws of the Simple pendulum.

6(a). List three applications of beats.

----- OR -----

6(b). Find the velocity of sound if the frequency of tuning fork is 150 Hz and wavelength 2 meter.

PART-C

7(a). Develop the expression for time period of simple pendulum.

----- OR -----

7(b). List five conditions of Simple Harmonic Motion.

8(a). List five applications of echo.

----- OR -----

8(b). Identify five methods to minimize noise pollution.