# NAT I Engineering Physics

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | If the period of oscillation of mass (M) suspended from a spring is 2s, then the period of mass 4M will be | A. 1 s<br>B. 2 s<br>C. 3 s<br>D. 4 s |
| 2 | If the metal bob is a simple pendulum is replaced by a wooden bob, then its time period will | A. Increase<br>B. Decreases<br>C. Remain the same<br>D. First 'A' then 'B' |
| 3 | In which case dose the potential energy decreases? | A. On compressing a spring<br>B. On stretching s spring<br>C. One moving a body against gravitational force<br>D. One the rising of an air bubble in water |
| 4 | Which one of the following is a simple harmonic motion? | A. Wave moving through a string fixed at both ends.<br>B. Earth spinning about its own axis<br>C. Ball bouncing between two rigid vertical walls<br>D. Particle moving in a circle with uniform speed. |
| 5 | Blood has a density | A. Equal to water<br>B. Greater then water<br>C. Lesser then water<br>D. None of these |
| 6 | The smooth or steady stream-line flow is know as | A. Laminar flow<br>B. Turbulent flow<br>C. Both a and b<br>D. None of the above |
| 7 | According to Stoke's law drag force depends on | A. Initial velocity<br>B. Final velocity<br>C. Terminal velocity<br>D. Instantaneous velocity |
| 8 | With the increase of temperature viscosity | A. Increase<br>B. Decrease<br>C. Remains same<br>D. Doubles |
| 9 | Ball pen function on the principle of | A. Viscosity<br>B. Boyle's law<br>C. Gravitational force<br>D. Surface tension |
| 10 | A person standing near the track of a fast moving train has tendency to fall towards it because of | A. Vibration due to motion of train<br>B. Gravitation force of attraction between person and trains<br>C. The high speed of train<br>D. Some other effect |