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PHYSICS



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INTERNATIONAL AL

1. One of this is not a base unit

- Cd
- C
- A
- mol

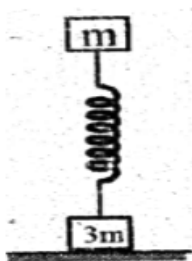
2. one of the below is equal with $2.34 \times 10^8 \text{ Hz}$

- 2.34 GHz
- 0.234GHz
- $2.34 \times 10^{11} \text{ m Hz}$
- 234 Ms

3. Who's the base unit equivalent with voltage

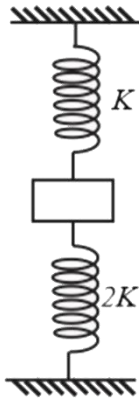
- $kg \ m \ s^{-3} \ A^{-1}$
- $kg \ m^2 \ s^{-3} \ A^{-1}$
- $kg \ m^2 \ s^{-3} \ A^{-2}$
- V

4. Stiffness constant of the spring is k . Who gives the compression of the spring when the object is in equilibrium. Given that $3m$ is contacted with a horizontal surface.



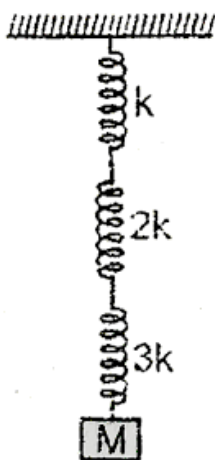
- $3mg/k$
- $2mg/k$
- mg/k
- $mg/2k$

5. A block of mass m is connected two springs of spring constant $2k$ and k , respectively, as shown in the vertical plane. At equilibrium, both springs are compressed by same length. If suddenly lower spring is cut, then acceleration of block, just after spring cut, is



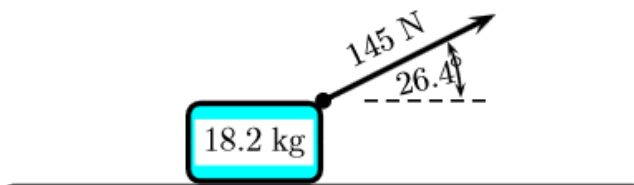
- g downward
- $2g$ downward
- g upward
- none of these

6. which of the expressions gives the total extension of the springs when it's in equilibrium.



- $M/6k$
- $11M/6k$
- $6M/11k$
- None of these

7. An 18.2 kg block is dragged over a rough, horizontal surface by a constant force of 145 N acting at an angle of 26.4° above the horizontal. The block is displaced 97 m and all surfaces are frictionless. Work done by the force is given by,



- $145 \times 97 \times \cos 26.4^\circ - 18.2 \times 9.81$
- $145 \times 97 \times \sin 26.4^\circ$
- $145 \times 97 \times \cos 26.4^\circ$
- $145 \times 97 \times \sin 26.4^\circ + 18.2g$