

KLUEEE 2023 Question Paper for Physics

Physics

Answer All Questions

Q26. Consider two satellites S1 and S2 with periods of revolution 1 hr and 8 hr respectively revolving around a planet in circular orbits. The ratio of angular velocity of satellite S1 to the angular velocity of satellite S2 is

- A. 8: 1
- B. 1: 8
- C. 2: 1
- D. 1: 4

Q27. Two equal capacitors are first connected in series and then in parallel. The ratio of the equivalent capacities in the two cases will be

- A. 2: 1
- B. 1: 4
- C. 4: 1
- D. 1: 2

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Q50. A particle is moving in a circular path of radius a under the action of an attractive potential $U = -\frac{k}{2r^2}$. Its total energy is:

- A. 0
- B. $-\frac{3k}{2a^2}$
- C. $-\frac{k}{4a^2}$
- D. $\frac{k}{2a^2}$