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PHYSICS

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A/L PHYSICS

1. One of this is not a base unit

- Cd
- C
- A
- mol
- s

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
- 23.4 GHz

3. Who's the base unit equivalent with voltage

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

4. Which of the following expression used SI base units for specific entropy.

- $\text{W m}^{-1} \text{ K}^{-1}$
- F m^{-1}
- H m^{-1}
- $\text{J kg}^{-1} \text{ K}^{-1}$
- j kg^{-1}

5. State two objectives of using dimensions

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The formula $F = 6\pi\mu av$ is derived with the help of Stockes' Law and stands for the drag force experienced by a small spherical object moving at a velocity v through a viscous fluid. a is the radius of the sphere. μ represents the dynamic viscosity of the fluid. Work out for the units of μ by checking the dimension stability of the equation.

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6. State major two types of errors and compare them.

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7. A measurement taken by a steel tape is as $(135 \pm 1)mm$

- a) Write down the absolute error.
- b) Determine the fractional error.
- c) State the percentage error.