

**GK & Science  
One Liners PDF  
Study Plan  
Day 2**

## PHYSICS

1. **Why water is used in hot water bags:** because the water has high specific heat. Thus it takes more time to cool down
2. **A body absorbs maximum amount of heat when it is:** Black & Rough surface; Best reflectors – White & smooth surface
3. **The temperature of a liquid is 32°F what is the temperature in Celsius scale:** 0°C
4. **The temperature at which the reading of both Fahrenheit scale and Celsius scale are same:** at – 40° both Fahrenheit and Celsius scale show same reading
5. **How refrigerator protects the food from contamination:** at low temperature germs cannot multiply and thus become non-reactive
6. **What is Relative humidity:** Relative humidity is the ratio of water vapour density to the saturation water vapour density and expressed in percentage

$$\text{Relative Humidity} = \frac{\text{Actual vapour Density}}{\text{Saturation Vapour Density}} \times 100$$

7. **Why sound wave cannot be transmitted through vacuum:** Sound wave is a longitudinal wave. Hence it requires a material medium for its propagation
8. **Ultrasonic wave cannot be polarized:** Ultrasonic waves are sound waves. Sound waves are longitudinal waves cannot be polarized.
9. **Coolidge tube is used to produce:** Coolidge tube is a vacuum tube which is used in the production of X-rays.
10. **Why red colour of light deviates least through the prism:** The smaller the wavelength the larger will be the deviation (refraction). As the red light has largest wavelength, it deviates the least.
11. **The unit of activity of a radioactive source is** Becquerel.
  - One Becquerel is defined as the activity of a quantity of radioactive substance in which one nucleus decays per second, it is named after the great scientist Henry Becquerel.
12. **What is the SI Unit of measurement of Angle:** Radian
13. **What is the SI Unit of Inductance:** Henry.
14. **What is the unit of Refractive index:** dimensionless
  - Because it is defined as how fast light travels through a material i.e  $RF = c/v$ , where  $c$  is the speed of light in vacuum and  $v$  is the phase velocity of light in the medium. Hence the ration  $c/v$  comes out to be dimensionless.
15. **Magnification is basically:** ratio of the height of an image relative to the height of the object.
16. **Natural magnet is also called as:** Lodestone.
  - A **lodestone** is a naturally magnetized piece of the mineral magnetite. Lodestone a permanent magnet mineral.
17. **Which layer of the earth's atmosphere reflect back the radio waves to the earth's surface:** Ionosphere
18. **Cycles per second is the unit of:** Cycles per second is an alternative unit for the frequency of an Electromagnetic wave
  - The other unit for frequency is Hertz
19. **The concept of electromagnetic waves was introduced by:** Maxwell
  - \* Electromagnetic radiation consists of electromagnetic waves, which are synchronized oscillations of electric and magnetic fields that propagate at the speed of light.
20. **Insects can move on water:** due to surface tension of water



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- Due to the surface tension, the free surface of water behaves like stretched elastic membrane which is able to support the small weight of insects and they can move on the surface of water.
21. **If a liquid wets a solid surface, the angle of contact between them will be:** less than 90 degree.
  - When the angle of contact between the liquid and a solid surface is acute, the liquid is said to wet the surface. If there are impurities in liquid, then they can alter the values of angle of contact.
  22. The resistance of a conductor is directly proportional to: length
  23. **What is the unit to measure intensity of sound:** Decibel
  24. **What is mass per unit volume:** Density
  25. **A spoon which seems tilted in water, is an example of:** Refraction
  26. **'Ohm' is the unit of:** Resistance.
    - The ohm is defined as an electrical resistance between two points of a conductor when a constant potential difference of 1 volt, applied to these points, produces in the conductor a current of 1 ampere, the conductor not being the seat of any electromotive force.
  27. **Rotation of the earth causes deflection of wind by:** Coriolis Effect
  28. **A moving body definitely possesses-** Kinetic Energy
    - *Potential Energy*- is possessed by height or elevation of a body.
    - *Mechanical Energy*- is defined as ability to do work.
    - *Heat Energy*- Possessed due to movement of tiny particles caused by temperature.
  29. **Water droplets cause rainbow due to:** reflection & refraction of sunlight.
  30. **Steel is more elastic than rubber because:** Elasticity is the property of being stretched and restored after the removal of stress (force). Steel restores quickly as compared to rubber under a given limit of stress



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