

# LIGHT, HEAT, THERMODYNAMICS, WAVE MOTION, SOUND, OPTICS & OSCILLATIONS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** Which one of the following types of waves are used in a Night Vision apparatus?

- a) Infra-red waves
  - b) Micro waves
  - c) Radio waves
  - d) None of the above
- 

**Q2.** Ultrasonic waves have frequency

- a) only above 20,000 Hz
  - b) below 20 Hz
  - c) between 20 and 20,000 Hz
  - d) only above 20,000 MHz
- 

**Q3.** Cloudy nights are warmer compared to clear cloudless nights, because clouds

- a) produce heat and radiate it towards earth
  - b) reflect back the heat given off by earth
  - c) prevent cloud waves from the sky from descending on earth
  - d) absorb heat from the atmosphere and send it towards earth
- 

**Q4.** The reason of mirage is

- a) Polarization of light

- b) Diffraction of light
- c) Interference of light
- d) Total internal reflection of light

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**Q5.** A ray of light propagates from an optically denser medium to an optically rarer medium. Then

- a) it will continue to go on the same path after refraction.
- b) it will bend towards the normal after refraction.
- c) it will bend away from the normal after refraction.
- d) it will refract making an angle of refraction = angle of incidence.

**Q6.** In an Earthen pitcher, the water remains cold due to the process of

- a) Evaporation
- b) Sublimation
- c) Condensation
- d) None of the above

**Q7.** Two identical piano wires have same fundamental frequency when kept under the same tension. What will happen if tension of one of the wire is slightly increased and both the wires are made to vibrate simultaneously?

- a) Beats
- b) Noise
- c) Resonance
- d) Non-linear effects

**Q8.** Consider the following statements.

- Steam at  $100^{\circ}\text{C}$  and boiling water at  $100^{\circ}\text{C}$  contain the same amount of heat.
- The latent heat of the fusion of ice is equal to the latent heat of the vaporization of water.
- In an air conditioner, heat is extracted from the room air at the evaporator coils and is ejected out at the condenser coils.

Which of these statements is/are **correct**?

- a) 2 and 3
  - b) Only 2
  - c) 1 and 2
  - d) Only 3
- 

**Q9.** The small ozone layer on the top of stratosphere is crucial for human survival as it –

- a) decreases oxygen in the atmosphere
  - b) increases the carbon dioxide in the atmosphere
  - c) increases carbon mono-oxide in the atmosphere
  - d) absorbs ultraviolet radiations
- 

**Q10.** The temperature of the sun is measured with

- a) Pyrometer
  - b) Platinum thermometer
  - c) Gas thermometer
  - d) Vapour pressure thermometer
- 

**Q11.** Voice of your friend can be recognized by its

- a) intensity
  - b) pitch
  - c) quality
  - d) velocity
-

**Q12.** Yellow colour light is used as fog light because yellow colour

- a) has the longest wavelength among all colours except red and orange but the red colour is already used for brake light and stop light whereas orange colour is avoided due to its similarity with red
- b) light is most scattered by fog
- c) has the longest wavelength among all colours
- d) has the shortest wavelength among all colours

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**Q13.** When a CD (Compact disc used in audio and video systems) is seen in Sunlight, rainbow-like colours is seen. This can be explained on the basis of the phenomenon of

- a) Diffraction and transmission
- b) Reflection and transmission
- c) Reflection and diffraction
- d) Refraction, diffraction and transmission

**Q14.** The technique to integrate and mark the image of a three dimensional object is

- a) Photography
- b) Lexieography
- c) Audiography
- d) Holography

**Q15.** Lightning can even burn a tree because it contains tremendous amount of

- a) Electric energy
- b) Chemical energy

- c) Heat energy
- d) Nuclear energy

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### Answers to the above questions :

**Q1. Answer: (a)**

**Q2. Answer: (a)**

**Q3. Answer: (b)**

Cloudy nights are warmer than clear nights because, the cloud cover provides a shield which act as an insulator and store up the heat radiated by the earth and do not permit heat to escape.

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**Q4. Answer: (d)**

**Q5. Answer: (d)**

A ray of light traveling from optically denser to the optically rarer medium will bend away from the normal.

**Q6. Answer: (a)**

**Q7. Answer: (c)**

**Q8. Answer: (d)**

**Q9. Answer: (d)**

The ozone layer in stratosphere absorbs ultraviolet radiation in sun rays which are harmful. For human being.

**Q10. Answer: (a)**

**Q11. Answer: (c)**

**Q12. Answer: (a)**

Yellow colour is used as fog light because of its longest wavelength it 63.33 penetrates well through dense fog.

**Q13. Answer: (c)**

**Q14. Answer: (d)**

**Q15. Answer: (a)**

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