

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

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**Q1.** The focusing in the eye is done by

- a) To and fro movement of the retina
  - b) To and fro movement of the lens
  - c) Change in the convexity of the lens
  - d) Change in the refractive index of the eye fluid
- 

**Q2. Assertion (A):**

Large cold storage plants use ammonia as refrigerant while domestic refrigerators use chlorofluorocarbons.

**Reason (R):**

Ammonia can be liquefied at ambient temperatures at low pressures.

Code

- a) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
  - b) (A) is true, but (R) is false
  - c) Both (A) and (R) are true and (R) is the correct explanation of (A)
  - d) (A) is false, but (R) is true
- 

**Q3.** Consider the following statements.

- Light of longer wavelength is scattered much more than the light of shorter wavelength.
- The speed of visible light in water is 0.95 times the speed in vacuum.
- Radio waves are produced by rapidly oscillating electrical currents.
- To detect the overspeeding vehicles, police use the Doppler effect of reflected short radio waves.

Which of these statements are correct?

- a) 2 and 4

- b) 1 and 3
  - c) 1 and 2
  - d) 3 and 4
- 

**Q4.** The Sun and the Moon appear elliptical near the horizon because of

- a) Interference phenomenon
- b) Optical illusion
- c) Refraction
- d) Their actual shape

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**Q5.** Which is not a primary colour?

- a) Red
  - b) Yellow
  - c) Black
  - d) Blue
- 

**Q6.** Which one of the following statements is not correct?

- a) The velocity of sound in air is independent of pressure
  - b) The velocity of sound in air decreases as the humidity increases
  - c) The velocity of sound in air increases with the increase of temperature
  - d) The velocity of sound in air is not affected by the change in amplitude and frequency
- 

**Q7.** Sound above what level (in decibel) is considered hazardous noise pollution?

- a) 100 dB

- b) 80 dB
  - c) 30 dB
  - d) 120 dB
- 

**Q8.** Waves used for telecommunication are

- a) Ultraviolet
  - b) Infrared
  - c) Visible light
  - d) Microwave
- 

**Q9.** If you are at open-air concert and someone's head gets between you and the orchestra, you can still hear the orchestra because

- a) the sound is reflected from the head
  - b) sound waves pass easily through a head
  - c) a head is not very large compared with the wavelength of the sound
  - d) the wavelength of the sound is much smaller than the head
- 

**Q10.** Range of audio-frequencies is

- a)  $10^3 - 10^5$  Hz
  - b) 1 –15 Hz
  - c) 20 – 20, 000 Hz
  - d)  $10^6 - 10^8$  Hz
- 

**Q11.** It is more comfortable to wear white cloth in summer because

- a) They radiate heat transferred from the body
- b) They absorb perspiration
- c) They reflect all the heat falling on them
- d) They are soothing to the eye

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**Q12.** Which of the following is not close to a black body?

- a) Black holes
- b) Black board paint
- c) Green leaves
- d) Red roses

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**Q13.** When a drop of oil is spread on a water surface, it displays beautiful colours in daylight because of

- a) polarization of light
- b) dispersion of light
- c) reflection of light
- d) interference of light

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**Q14.** Ultrasonics are sound waves of frequency

- a) Less than 10,000 Hz
- b) Equal to 1000 Hz
- c) Greater than 20,000 Hz
- d) None of the above

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**Q15.** CT scan is done by using

- a) Visible Light
  - b) Ultrasonic Waves
  - c) Infra-red Rays
  - d) X-Rays
-

### Answers to the above questions :

Q1. Answer: (c)

Q2. Answer: (b)

Q3. Answer: (d)

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**Q4. Answer: (c)**

**Q5. Answer: (c)**

**Q6. Answer: (b)**

**Q7. Answer: (b)**

**Q8. Answer: (d)**

**Q9. Answer: (c)**

**Q10. Answer: (c)**

**Q11. Answer: (c)**

**Q12. Answer: (b)**

**Q13. Answer: (d)**

The colours are seen due to interference of light. The colours seen in reflected light are complementary with the colours seen in transmitted light.

**Q14. Answer: (c)**

**Q15. Answer: (d)**

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