

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

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Created By [Careericons](#) Team

Q1. The velocity of sound is maximum in

- a) Liquid
 - b) Metal
 - c) Air
 - d) Vacuum
-

Q2. Put in ascending order the speed of sound in the mediums.

- Water
- Steel
- Nitrogen

- a) 3, 1, 2
 - b) 1, 3, 2
 - c) 3, 2, 1
 - d) 2, 1, 3
-

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

- a) Reflect back the heat given off by Earth
 - b) Produce heat and radiate it towards Earth
 - c) Prevent cold waves from the sky from descending on Earth
 - d) Absorb heat from the atmosphere and send it toward Earth
-

Q4. Triple point is the temperature at which

- a) matter may simultaneously exist in solid and gaseous state.
- b) matter may simultaneously exist in liquid and gaseous state.
- c) matter may simultaneously exist in liquid and solid state.
- d) matter may simultaneously exist in all the three forms.

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Q5. Consider the following statements:

- The sun looks red at sunset because most of the blue light in sunrays is scattered leaving behind red and yellow lights.
- Clouds look white because water droplets of clouds scatter all colours of light equally.

Which of these statements is/ are correct?

- a) 1 and 2 both
- b) 1 only
- c) 2 only
- d) None

Q6. Which one among the following statements about thermal conductivity is correct ?

- a) Steel > Water > Wood
- b) Steel > Wood > Water
- c) Water > Steel > Wood
- d) Water > Wood > Steel

Q7. Thermostat is related to

- a) Temperature
- b) Air

c) Humidity

d) Clouds

Q8. Which of the following is a mechanical wave?

a) Light waves

b) X-rays

c) Radio waves

d) Sound waves

Q9. Consider the following statements.

Assertion (A):

Light coloured clothes are preferred in summer.

Reason (R):

Light colours are poor absorbers of heat.

Select correct answer from the code given below.

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

Q10. Consider the following statements :

- 10 g of ice at 0°C and 10 g of water at 0°C contain same amount of heat.
- The specific heat of ice at 0°C is equal to that of water at 0°C .

Which of the statements given above is/are correct ?

a) 1 and 2 both

b) 2 only

c) 1 only

d) None

Q11. The minimum height of mirror required to see whole stand up image of a man of height 1.50 metre shall be

- a) 1.50 metre
 - b) 1.00 metre
 - c) 0.75 metre
 - d) 3.00 metre
-

Q12. Which one among the following statements is not correct?

- a) In air or other gases, a progressive antinode occurs at a displacement node and a progressive node occurs at a displacement antinode
- b) In progressive waves, the amplitude may be constant and neighbouring points are out of phase with each other
- c) Transverse wave can be polarised while longitudinal wave cannot be polarised
- d) Longitudinal wave can be polarised while transverse wave cannot be polarized

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Q13. Assertion (A) :

The boiling point of water decreases as the altitude increases.

Reason (R) :

The atmospheric pressure increases with altitude.

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

Q14. What is the reason behind the extraordinary shining of the diamond cuts in a proper way?

- a) Because it is so hard
- b) Because it has a higher refractive index
- c) Because it has a higher transparency
- d) Because it has a fixed deviation floors

Q15. Rainbow is produced when Sunlight falls on drops of rain, which of the following physical phenomena are responsible for this?

- Dispersion
- Refraction
- Internal reflection

Select the correct answer using the code given below.

- a) 1 and 3
- b) 2 and 3
- c) 1 and 2
- d) All of the above

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (a)

Q3. Answer: (a)

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Q4. Answer: (d)

Triple point is the temperature where three states of matter can exist simultaneously.

Q5. Answer: (a)

According to the Raleigh scattering formula $\text{Scattering} \propto \frac{1}{\lambda^4}$

Short waves (violet) are scattered about ten times as the longer waves of red light. At sunrise and seen set, the sun's rays have to pass through a larger distance in the atmosphere. Most of the blue and other shorter wavelengths are removed by scattering.

The least scattered light reaches our eye, therefore the sun looks reddish. Water droplets of clouds scatter all colours of light, thus object (cloud) appears white because all the colours recombine to give white light.

Q6. Answer: (a)

Q7. Answer: (a)

Q8. Answer: (d)

Q9. Answer: (c)

Q10. Answer: (a)

The specific heat depends on the pressure volume and temperature of the substance.

Q11. Answer: (c)

Q12. Answer: (b)

Q13. Answer: (c)

Q14. Answer: (b)

Q15. Answer: (d)

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