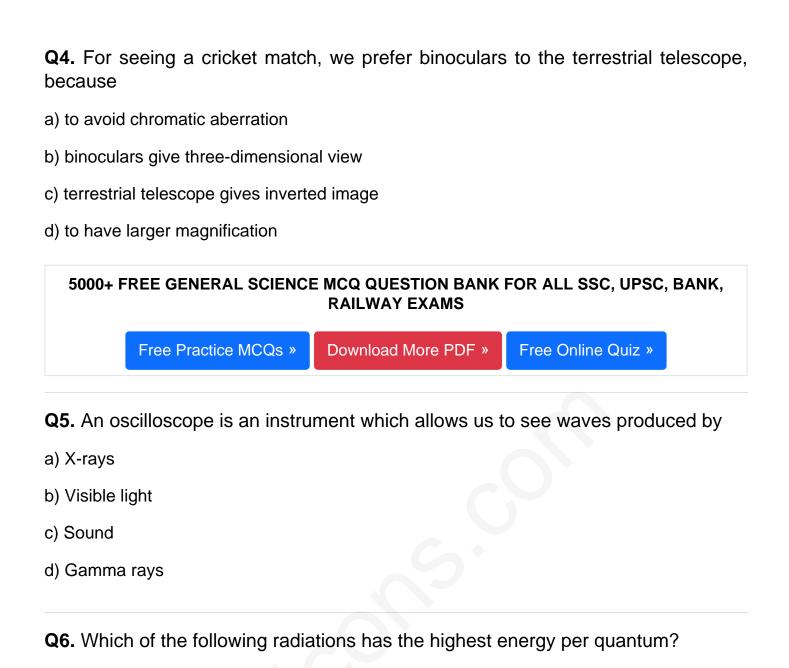
LIGHT, HEAT, THERMODYNAMICS, WAVE MOTION, SOUND, OPTICS & OSCILLATIONS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. Magnification produced by a rear view mirror fitted in vehiclesa) is equal to oneb) is less than onec) is more than oned) can be more than or less than one depending upon the position of the object in front of			
			Q2. Consider the following statements:
			 Two bodies in contact must be in thermal equilibrium. A tightly closed metal lid of a glass bottle can be opened more easily if it is put in hot water for sometime. The coefficient of expansion of metal lid is greater than that of glass.
			Which of the statements are correct? a) 2 and 3
			b) 1 and 3
c) 1 and 2			
d) 1, 2 and 3			
Q3. The least distance of distinct vision of a normal eye of an adult is			
a) 25 mm			
b) 25 m			
c) 25 cm			
d) None of these			



Q7. Bats can ascertain distance, directions, nature and size of the obstacles at

night. This is possible by reflection of the emitted

a) ultrasonic waves from the distant objects

d) supersonic waves from the distant objects

b) ultrasonic waves from the bat

c) supersonic waves from the bat

a) 280-320 nm

b) 200-280 nm

c) 320-400 nm

d) 400-600 nm

Q8. An air bubble inside water behaves as a a) Divergent lens b) Convergent lens c) Bifocal lens d) Cylindrical lens **Q9.** Total internal reflection can take place only if a) the refractive indices of the two media are close to different b) light goes from optically rarer medium to optically denser medium c) light goes from optically denser medium to rarer medium d) the refractive indices of the two media are widely different Q10. Consider telecommunication through optical fibres. Which of the following statements is not true? a) Optical fibres may have homogeneous core with a suitable cladding b) Optical fibres are subject to electromagnetic interference from outside c) Optical fibres have extremely low transmission loss d) Optical fibres can be of graded refractive index Q11. Water has maximum density at a) -4°C b) 0°C c) 32°F

Q12. Consider the following phenomena.

Size of the Sun at dusk

d) 4°C

Colour of the Sun at dawn

- Moon being visible at dawn Twinkle of stars in the sky
- Polestar being visible in the sky

Which of the above are optical illusions?

- a) 1, 2 and 4
- b) 3, 4 and 5
- c) 1, 2 and 3
- d) 2, 3 and 5

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Q13. Consider the following statements:

- Steam at 100°C and boiling water at 100°C contain same amount of heat.
- Latent heat of fusion of ice is equal to the latent heat of vaporization of water.
- In an air-conditioner, heat is extracted from the room air at the evaporator coils and is rejected out at the condenser coils.

Which of these statements is/are correct?

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

Q14. The frequency of a wave travelling at a speed of 500 ms⁻¹ is 25Hz. Its time period is

- a) 25 s
- b) 20 s
- c) 0.05 s
- d) 0.04 s

Q15. The regions of compressions and rarefractions of sound wave are established because

- a) the reflected sound wave at fixed end interferes with the incident wave
- b) the sound wave undergoes diffraction behind obstacles
- c) the longitudinal movement of air molecules produce pressure fluctuations
- d) the speed of the sound wave changes as it travels through a medium

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Answers to the above questions:

Q1. Answer: (b)

Q2. Answer: (d)

A metal is a good conductor of heat and electricity while glass on the other hand is a poor conductor of heat.

Q3. Answer: (c)

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MECHANICS (MASS, FORCE, ACCELERATION, WORK, ENERGY, MOMENTUM, VELOCITY)

FORCE OF GRAVITY, SOLIDS AND FLUIDS MOTION UNDER GRAVITY

PHYSICAL PROPERTIES OF MATERIALS

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ECOLOGY AND ENVIRONMENT AWARENESS

GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (b)

Q5. Answer: (c)	
Q6. Answer: (b)	
Q7. Answer: (b)	
Q8. Answer: (a)	

Q9. Answer: (c)

According to Snell's Law,

$${\sin i}/{\sin r} = \mu_2/\mu_1$$

where $r = 90^{\circ}$ for a particular incidence angle called the critical angle. When the incidence angle is equal to or greater than i_c , then total internal reflection occurs.

It takes place when a ray of light travels from an optically denser medium (\$ μ _1 > μ 2\$) to an optically rarer medium.

Q10. Answer: (b)

Optical fibres are free from electromagnetic interference from outside.

Q11. Answer: (d)

Water has maximum density at 4°C .

Q12. Answer: (a)	
Q13. Answer: (d)	
Q14. Answer: (d)	
Q15. Answer: (c)	

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