

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. Assertion (A):

A piece of copper and a piece of glass are heated to the same temperature. When touched, thereafter the copper piece appears hotter than the glass piece.

Reason (R):

The density of copper is more than that of glass.

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
-

Q2. The minimum distance of clear vision for a normal healthy eye of human being is supposed to be

- a) 15 cm
 - b) 10 cm
 - c) 50 cm
 - d) 25 cm
-

Q3. Assertion (A):

With the increase of temperature, the viscosity of glycerin increases.

Reason (R):

Rise of temperature increases kinetic energy of molecules.

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
-

Q4. Xeric condition refers to

- a) low humidity
- b) high evaporation
- c) low temperature
- d) extreme temperature

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Q5. A sound wave having certain frequency is incident on air-water surface. A part of it is reflected and other part is refracted into water. Then:

- a) the frequency of reflected wave will be more than frequency of refracted wave
 - b) the reflected wave will travel faster than refracted wave
 - c) the wavelength of refracted wave will be more than wavelength of reflected wave
 - d) the frequency, wavelength and velocity of reflected and refracted waves will be same as that of incident wave
-

Q6. A : At high altitude regions the cooking of food becomes difficult. B : Water boils at lower temperature when the pressure is low.

- a) A and B are correct and B is the correct explanation of A.
 - b) Both A and B are wrong.
 - c) A and B are correct and B is not the correct explanation of A.
 - d) A is correct but B is wrong.
-

Q7. What is the function of the thermostat of a refrigerator?

- a) To increase the freezing point
 - b) To maintain constant temperature
 - c) To lower the temperature
 - d) To decrease the melting point
-

Q8. A biotechnique in which ultrasonic sound is used

- a) E.C.G.
 - b) E.E.G.
 - c) Sonography
 - d) X-ray
-

Q9. 'The stars seem to be higher on the sky than they actually are'. This can be explained by

- a) total internal reflection
 - b) atmospheric refraction
 - c) dispersion of light
 - d) diffraction of light
-

Q10. To keep drinks at the same temperature for quite sometime, the walls of thermos bottle are coated with

- a) Lead Powder
 - b) Silver Layer
 - c) Aluminium Paint
 - d) Mercury Layer
-

Q11. Human eye is most sensitive to visible light of the wavelength

- a) 4500 Å
 - b) 5500 Å
 - c) 6050 Å
 - d) 7500 Å
-

Q12. Which one of the following statements is not true about cosmic rays?

- a) They are made of highly energetic charged particles
- b) They have very short wavelength
- c) They are electromagnetic waves
- d) They originate from the Sun

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Q13. The change of focal length of an eye lense is caused by action of the

- a) Ciliary muscles
 - b) Retina
 - c) Pupil
 - d) Iris
-

Q14. For shaving, one uses

- a) Convex mirror
 - b) Plain mirror
 - c) Concave mirror
 - d) None of the above
-

Q15. The gas used in discharge tubes for optical decoration and advertising is

- a) Sulphur dioxide
- b) Ammonia
- c) Carbon dioxide
- d) Neon

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (d)

Q3. Answer: (d)

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Q4. Answer: (a)

Q5. Answer: (c)

We know that

speed = frequency × wavelength

If the frequency is constant, then speed a wavelength

We know that the speed of the sound waves in water is more than that of air.

Hence option (c) is correct.

Q6. Answer: (a)

Q7. Answer: (b)

Q8. Answer: (c)

Q9. Answer: (b)

Due to atmospheric refraction the twinkling of star, and their position appear higher than the normal.

Q10. Answer: (b)

Q11. Answer: (b)

Q12. Answer: (c)

Q13. Answer: (d)

Q14. Answer: (c)

Q15. Answer: (d)

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