

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 atmosphere exerts enormous pressure on us. But, we do not feel it because

- a) We are used to it
 - b) Our bones are very strong and can withstand the pressure
 - c) Our blood exerts a pressure slightly more than that of the atmosphere
 - d) The surface area of our head is very small
-

Q2. There are four objects A, B, C and D. It is observed that A and B are in thermal equilibrium and C and D are also in thermal equilibrium. However, A and C are not in thermal equilibrium. We can conclude that –

- a) B and D cannot be in thermal equilibrium
 - b) B and D are in thermal equilibrium
 - c) B and D could be in thermal equilibrium but might not be A and D
 - d) the zeroth law of thermodynamics does not apply here because there are more than three objects
-

Q3. Consider the following statements.

- a. Some bodies may contract from heating
 - b. Water shows anomalous expansion.
- a) Both (A) and (B) are true.
 - b) (A) is true and (B) is false
 - c) (A) is false and (B) is true.
 - d) Both (A) and (B) are false.
-

Q4. When light passes from one medium to another medium, which one of the following does not change?

- a) Wavelength
- b) Velocity
- c) Intensity
- d) Frequency

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Q5. A coin in a beaker filled with water appears raised. This phenomenon occurs because of the property of

- a) total internal reflection of light
- b) reflection of light
- c) refraction of light
- d) interference of light

Q6. Pressure cooker cooks food in lesser time because

- a) Air has no effect as it is closed from all sides
- b) Temperature of boiling water increases due to high pressure
- c) The temperature of boiling water decreases due to high pressure
- d) Evaporation of the water used is very small

Q7. What is absolute zero temperature?

- a) Theoretically the lowest possible temperature
- b) The temperature at which the vapour of any liquid substance is condensed
- c) The starting point of any temperature scale
- d) The temperature at which all material are in vapour form

Q8. If V_a , V_w and V_s respectively are the speed of sound in air, water and steel, then

- a) $V_s V_w V_a$
 - b) $V_w V_s V_a$
 - c) $V_a V_w V_s$
 - d) $V_s V_a V_w$
-

Q9. Which of the following is used to take 3-dimensional pictures?

- a) Radiography
 - b) Holography
 - c) Photography
 - d) None of these
-

Q10. When T.V. is switched on

- a) Audio is heard immediately but video starts later because video needs some warm up time
 - b) Video starts immediately but audio is heard later because sound travels at a lesser speed than light
 - c) Audio and video both start simultaneously
 - d) It depends on the T.V. brand
-

Q11. Which one of the following energy conversions takes place in carrying out the process of photosynthesis?

- a) Thermal to biochemical energy
 - b) Light to thermal energy
 - c) Light to chemical energy
 - d) Heat to kinetic energy
-

Q12. In winter you touch a log of wood and a rod of iron, you will find rod of iron is colder because

- a) In comparison to wood, iron is good conductor of heat
- b) In comparison to wood, iron is bad conductor of heat
- c) The heat of rod of iron is less than the heat of log of wood
- d) The rod of iron is heavier than the log of wood

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Q13. If the lens power of glass is +2 dioptre, its focal length will be

- a) 50 cm
- b) 100 cm
- c) 200 cm
- d) 2 cm

Q14. The rate of flow of heat through a rod depends on:

- a) temperature difference across the rod.
- b) thermal conductivity of the rod.
- c) length of the rod.
- d) All of these

Q15. Which of the following statement is true?

- a) Celestial objects have the greatest velocity
- b) The sound has the greatest velocity
- c) The light has a greater velocity
- d) Rocket has the greatest velocity

Answers to the above questions :

Q1. Answer: (c)

Q2. Answer: (a)

Thermal equilibrium means same temperature.

Q3. Answer: (a)

Some bodies like wood, rubber etc. have a negative value of the coefficient of thermal expansion, hence they contract on heating.

Hence (A) is true. (B) is also true.

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Q4. Answer: (d)

Q5. Answer: (c)

We know that, the apparent depth is m times less than the actual depth. i.e., $d_{\text{apparent}} = \frac{d_{\text{actual}}}{m}$

Q6. Answer: (b)

Q7. Answer: (a)

Q8. Answer: (c)

Q9. Answer: (b)

Q10. Answer: (c)

Q11. Answer: (c)

Q12. Answer: (a)

Q13. Answer: (a)

Q14. Answer: (d)

Rate of flow of heat through a rod.

$$H = \frac{kA}{2l} \Delta T$$

Q15. Answer: (c)

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