# 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 <u>Careericons</u> 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

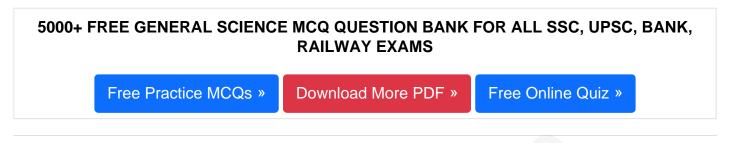
d) the zeroth law of thermodynamics does not apply here because there are more than three objects

**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



**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 Va, Vw and Vs respectively are the speed of sound in air, water and steel, then

- a) Vs Vw Va
- b) Vw Vs Va
- c) Va Vw Vs
- d) Vs Va Vw

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 feed 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



- 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

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#### 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., $d_{apparent} = \frac{d_{actual}}{?}$ 

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.

 $H = {kA}/2?T$ 

Q15. Answer: (c)

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