

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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. Match list I with list II and select the correct answer using the codes given below the lists.

List I	List II
A. Heat	1. 0°C
B. Temperature	2. Zero Kelvin
C. Temperature of melting ice	3. Sum of K.E. + P.E. of the molecules
D. Absolute zero temperature	4. Average K.E. of molecules

Choose the correct option from the codes given below :

- a) A – 3, B – 4, C – 2, D – 1
- b) A – 2, B – 3, C – 4, D – 1
- c) A – 2, B – 1, C – 4, D – 3
- d) A – 3, B – 4, C – 1, D – 2

Q2. Why is sound heard with more intensity through CO₂ than through the air ?

- a) Density of CO₂ is less than that of air
- b) Density of CO₂ is more than that of air
- c) Air is bad conductor of heat
- d) CO₂ is a compound, but air is a mixture of gases.

Q3. Decibel unit is used to measure

- a) Sound intensity
- b) Magnitude of earthquake

- c) Light intensity
 - d) None of the above
-

Q4. 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.

- 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

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Q5. Assertion and Reason are given below.

Assertion (A):

We prefer the white dress in winters.

Reason (R):

White dresses are good reflectors of heat.

Which one among these is the right answer.

- 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
-

Q6. Which one of the following is used as an antifreeze for the automobile engines?

- a) Ethylene glycol

- b) Methanol
 - c) Ethanol
 - d) Propyl alcohol
-

Q7. The technique used to transmit audio signals in television broadcast is

- a) Pulse code modulation
 - b) Frequency modulation
 - c) Amplitude modulation
 - d) Time dimension multiplication
-

Q8. Assertion (A):

A stick is dipped in water in a slanting position. If observed sideways, the stick appears short and bent at the surface of the water.

Reason (R):

A light coming from the stick undergoes scattering from water molecules giving the stick a short and bent appearance.

Code

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

Q9. An underwater explosion is caused near the sea-shore. There are two observers, X under water and Y on land, each at a distance of 1 km from the point of explosion then

- a) Both will hear the sound at the same time
 - b) X will hear the sound earlier
 - c) Y will hear the sound earlier
 - d) Y will not hear the sound at all
-

Q10. Assertion (A):

A piece of ice added to the drink, cools it.

Reason (R):

Ice takes latent heat from the drink for melting resulting in the cooling of the drink. Select the correct answer using the codes 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
-

Q11. Cloudy nights are warmer compared to clear cloudless nights, because clouds:

- a) reflect back the heat given off by earth
 - b) prevent cloud waves from the sky from descending on earth
 - c) produce heat and radiate it towards earth
 - d) absorb heat from the atmosphere and send it towards earth
-

Q12. An assertion and its reason is given below.

Assertion (A):

Salt is used for cooking the food at places on higher from sea level.

Reason (R):

Temperature is low in higher places.

Which one among these is right answer?

- 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

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Q13. The tolerable limit of noise for human being is around

- a) 85 decibel
 - b) 125 decibel
 - c) 45 decibel
 - d) 155 decibel
-

Q14. Television signals cannot be received beyond a certain distance because

- a) Air absorbs signals
 - b) Antenna is weak
 - c) Signals are weak
 - d) The surface of the Earth is curved
-

Q15. Which of the following lens is used to minimize Myopia?

- a) Cylindrical lens
 - b) Concave lens
 - c) Convex lens
 - d) None of the above
-

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Answers to the above questions :

Q1. Answer: (d)

Heat is the total K.E. and P.E. of the molecules.

Water freezes at 0°C.

Absolute zero i.e., zero Kelvin temperature.

Q2. Answer: (b)

Q3. Answer: (a)

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GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (a)

Q5. Answer: (d)

Q6. Answer: (a)

Q7. Answer: (b)

Q8. Answer: (a)

Q9. Answer: (b)

Q10. Answer: (c)

Q11. Answer: (a)

Q12. Answer: (a)

Q13. Answer: (a)

Q14. Answer: (d)

Q15. Answer: (b)

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