

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

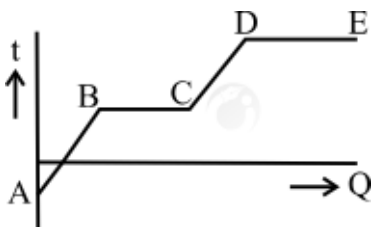
For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. In order to avoid Sunlight, which of the following colour combination for an umbrella is most appropriate?

- a) Only black
- b) Top white and bottom black
- c) Top black and bottom white
- d) Only white

Q2. The graph given above indicates change in temperature (Δt) when heat (Q) was given to a substance. Which among the following parts of the graph correctly depict the latent heat of the substance?



- a) BC and DE
- b) AB and BC
- c) CD and DE
- d) DE and AB

Q3. In which of the following conditions wet clothes will dry earliest?

- a) 100% RH, 20°C temperature
- b) 20% RH, 20°C temperature

- c) 100% RH, 60°C temperature
 - d) 20% RH, 60°C temperature
-

Q4. 'Raman effect' deals with the light rays passing through

- a) Only diamonds
- b) Only prisms
- c) Only fluids
- d) All transparent medium

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Q5. Expansion during heating

- a) decreases the density of a material
 - b) occurs only in solids
 - c) increases the weight of a material
 - d) occurs at the same rate for all liquids and solids
-

Q6. Mr X was advised by an architect to make outer walls of his house with hollow bricks. The correct reason is that such walls

- a) help keeping inside cooler in summer and warmer in winter
 - b) make the building stronger
 - c) prevent seepage of moisture from outside
 - d) protect the building from lightning
-

Q7. When the same note is played on a sitar and a flute, the sound produced can be distinguished from each other because of the difference in

- a) pitch and loudness
 - b) quality only
 - c) pitch, loudness and quality
 - d) loudness only
-

Q8. Assertion (A):

In a pressure cooker food is cooked above boiling point.

Reason (R):

Boiling point of water increases as the pressure increases.

- a) Both A and R are true, but R is not the 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
-

Q9. Which one of the following types of waves are used in a night vision apparatus?

- a) Microwaves
 - b) Radio waves
 - c) Infra-red waves
 - d) None of the above
-

Q10. Consider the following statements :

- Convex lens is used in a terrestrial telescope.
- Convex lens of a small focal length is used as a magnifying glass.
- Convex lens forms an enlarged image of an object, when the object is placed beyond the focus of the lens.

Which of these statements are **correct**?

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

Q11. Reading glasses are made from which type of lenses?

- a) Plain
 - b) Convex
 - c) Concave
 - d) None of these
-

Q12. Match List I with List II and select the correct answer using the codes given below the lists.

List I	List II
A. Sound wave	1. Transverse
B. Lightwave	2. Longitudinal
C. The speed of sound in a perfectly rigid rod	3. zero
D. The speed of sound in a vacuum	4. Infinite

Choose the correct option from the codes given below :

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

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Q13. The concept of expanding universe is based on

- a) Zeeman effect
 - b) Stark effect
 - c) Doppler effect
 - d) Raman effect
-

Q14. Expansion during heating

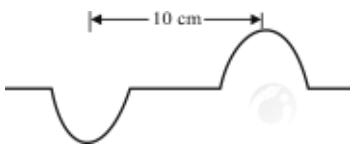
- a) Increases the weight of the material
- b) Decreases the density of the material
- c) Occurs only in solid
- d) Occurs at the same rate for all liquids and solids

Q15. Two pulses travel in mutually opposite directions in a string with a speed of 2.5 cm/s as shown in the figure. Initially the pulses are 10 cm apart. What will be the state of the string after two seconds

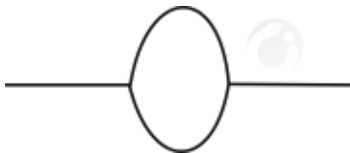
a)



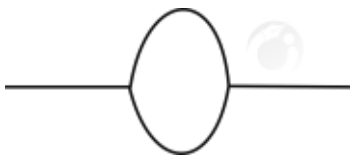
b)



c)



d)



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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (a)

Q3. Answer: (d)

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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

LIGHT, HEAT, THERMODYNAMICS, WAVE MOTION, SOUND, OPTICS & OSCILLATIONS

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ECOLOGY AND ENVIRONMENT AWARENESS

GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (d)

Q5. Answer: (a)

Solids, liquids and gases all expand on being heated as a result,

Density = (mass/volume) decreases.

Q6. Answer: (a)

Q7. Answer: (b)

Q8. Answer: (b)

Q9. Answer: (c)

Q10. Answer: (b)

The enlarged image is formed by a convex lens when the object is placed between F_1 and $2F_1$. Behind $2F_1$ the size of the image continuous decreases.

At $2F_1$, the size of the image formed by the convex lens is as same as the object.

Q11. Answer: (b)

Q12. Answer: (b)

Sound waves cannot travel in a vacuum, because sound waves are mechanical waves.

Q13. Answer: (c)

Q14. Answer: (b)

Q15. Answer: (a)

After 2 second, each wave travels a distance = $2.5 \times 2 = 5$ m and

So the shape in figure (a) is the correct one.

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