

ICSE Class 7 Physics Important Questions

1. Choose the correct answer out of the four available choices given under each question.
 - (a) A plastic mug full of water appears lighter inside water due to
 - i. Gravitational force
 - ii. Pressure
 - iii. Newton's Third Law
 - iv. Buoyant force
 - (b) A person gets a severe shock on touching
 - i. a neutral wire
 - ii. a live wire
 - iii. an earthing wire
 - iv. None of above
 - (c) Which of the following is not a characteristic of a plane mirror?
 - i. The magnification of the image formed is 1.
 - ii. The image can be formed on a screen
 - iii. The image formed is erect.
 - iv. The image is formed at the same distance behind the mirror as the object is in front of it.
2. Answer the following questions in one word or one sentence.
 - i. Name the unit used to measure the loudness of sound.
 - ii. What is the law of length?
 - iii. Which lens would you prefer to use while reading small letters found in a dictionary?
 - iv. Name the temperature scale which does not have negative temperature readings.
 - v. What happens when two bodies are rubbed together?
3. Fill in the blanks and rewrite the sentences:
 - i. No medium is required for the transfer of heat by the process of _____.
 - ii. A _____ mirror can form a real and inverted image.
 - iii. _____ is the characteristic property of a substance, which decreases with an increase in temperature.
 - iv. A collection of rays is known as _____ of light.
 - v. When a body travels with uniform velocity, its acceleration is _____.
4. Match the items in column A with the appropriate items in column B.

Column A	Column B
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Pitch	Frequency
When two oppositely charged clouds approach each other	A concave mirror
Used by dentist to see enlarged image of teeth	Lightning is produced
Absolute zero	m/s ² -
Acceleration	273°K

5. Define Rotational motion
6. Explain Angle of incidence
7. What is infrasonic vibrations?
8. Write note on Electroplating
9. Define Radiation
10. Identify and classify the following types of motions as rotatory, vibratory, periodic, or translatory motion:

Motion of spinning top	
The swinging pendulum of a wall clock	
Firing of a bullet from a gun	
Wheel of a moving cycle	
Motion of a plucked string of a sitar	

11. Give one word for the following
 - i. When an object is placed over a liquid whose density is less than the density of the object, the object will
 - ii. The Sun is completely blocked by the Moon.
 - iii. The method which determine the distance of sound of reflecting surface by producing echo.
 - iv. The property which is used to generate electricity in generator.
 - v. The maximum displacement of the bob on either side of the mean position is
12. State whether the following statements are True or False
 - i. Inertia is the specific property of a body by virtue of which the body changes its state of rest by itself.

- ii. Designers of wallpapers and fabrics and artists use periscopes to get ideas for new patterns.
 - iii. Formation of images done by ray diagram.
 - iv. When the chemicals in an electric cell are used up, the electric cell stops producing electricity.
 - v. The air from the sea is called the warm air.
13. Cooking pots are provided with wooden or plastic handles. Why?
14. What is a pinhole camera? How does the letter F appear in a pin hole camera?
15. Answer the following questions in short:
- i. Pick out the conductors and insulators from the list:
Brass, mica, air, silver, aluminium, human body, lead, copper, glass, plastic, bakelite, rubber, common salt solution, alcohol, mercury, wool, leather, ebonite
 - ii. On what factors does the time period of a simple pendulum depend?
16. Draw ray diagrams to show the image formation by a concave mirror, when it is placed (i) beyond C (ii) at C
17. Explain the effects of heat.
18. What is an echo?
19. State two conditions necessary for hearing an echo.
20. What is the radius of curvature of a spherical mirror whose focal length is -0.5 cm? Also name the type of mirror?