

ICSE Class 8 Physics Important Questions

- 1. Choose the correct answer out of the four available choices given under each question.
 - a) The fluid between the retina and the lens is called
 - (a) Aqueous humor
 - (b) Vitreous humor
 - (c) Choroid
 - (d) Sclerotic
 - b) Which among the following is false?
 - (a) A denser liquid exerts a greater up thrust
 - (b) Relative density has no unit
 - (c) Icebergs have 11/12 parts above water
 - (d) A body experiences a loss in weight in a liquid
 - c) The attractive property of a magnet is maximum at
 - (a) The North Pole only
 - (b) The South Pole only
 - (c) Both the poles
 - (d) The center of the magnet
- 2. Match the columns and rewrite them correctly.

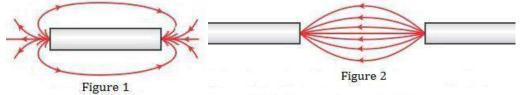
	Column A		Column B
1	Brightest planet	1	Convex lens
2	Myopia	2	A battery
3	Chemical energy to sound energy	3	Venus
4	Potential difference	4	Water
5	Concave meniscus	5	Mercury
		6	A fire cracker
		7	Concave lens
		8	volt

3. Fill up the blanks and rewrite the sentence
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- 1. Rainbow is produced due to _____ of white light.
- 2. We use water in hot bags for ___ because it will keep us warm.



- 3. A glass slab appears to be ____ in water than in air.
- 4. The _____ Pole of the Earth's magnet is closer to the geographic South Pole.
- 5. If the Moon is in the _____core of the Earth's shadow, it is known as a total lunar eclipse.
- 4. State whether the following statements are True or False. Correct the false statement and rewrite it.
 - a. A concave lens always forms an inverted image.
 - b. A camel can run faster in deserts than a horse.
 - c. Non-renewable sources of energy can never get exhausted.
 - d. While charging by induction, there is no loss of charge.
 - e. An electromagnet is a temporary magnet.
- 5. Give reasons for the following.
 - a. It takes some time to see objects in a cinema hall when we just enter it from bright sunlight.
 - b. Heavy trucks have 6-8 tyres.
 - c. In a hydroelectric power plant more electrical power can be generated if the water falls from a greater height.
 - d. Soaps and detergents help in cleaning clothes.
- 6. For which position of an object does a convex lens form a real and inverted image of the same size as that of object? Draw a labelled ray diagram to show the formation of the required image.
- 7. What is a galaxy? Name the different kinds of galaxies.
- 8. Identify the poles of the magnet in the figures (1) and (2) below:



- 9. What is electromagnetic induction?
- 10. In what way can the magnitude of the induced current be increased?
- 11. Water wets the glass surface while mercury does not. Explain.
- 12. Give three differences between myopia and hypermetropia.



- 13. What are the do's and don'ts during a thunderstorm when you are outside the house?
- 14. For what purposes is solar energy used?
- 15. Describe the advantages of high specific heat capacity of water as a coolant.
- 16. What happens to the equivalent resistance and the current in a parallel circuit when more and more resistances are added?
- 17. Name the physical quantity whose unit is volt/ampere.
- 18. What is meant by potential difference between two points?
- 19. Write a note on tides.
- 20. Ram throws a stone in the pond. It displaces 1.5 kg of water. Calculate the buoyant force acting on the stone ($g = 9.8 \text{ m/s}^2$).
- 21. 'A ray of light incident on a rectangular glass slab immersed in any medium emerges parallel to itself'. Draw a labelled ray diagram to justify the statement.
- 22. State the rules for construction of ray diagrams for a convex lens along with the ray diagram.
- 23. How much current will an electric bulb draw from a 220 V source, if the resistance of the filament of the bulb is 1200Ω ?
- 24. What is Pascal's law? Demonstrate it with the help of an experiment.
- 25. Land breeze is set up during the night. Why?