

ICSE Class 6 Physics Important Questions

1. Choose the correct answer out of the four available choices given under each question. [15]

- a) If two unequal forces are applied on an object in opposite directions, then
 - i. these forces will add to one another
 - ii. these forces will cancel each other
 - iii. the net force will be the difference between the two forces
 - iv. these forces will multiply each other
- b) When a person speaks in front of a microphone, sound energy is converted into
 - i. Loud sound energy
 - ii. Magnetic energy
 - iii. Chemical energy
 - iv. Electric energy
- c) Which of the following is not used for measuring time?
 - i. Sundial
 - ii. Water clock
 - iii. Sand clock
 - iv. Hand span

2. Name the following.

- i. The ultimate source of energy.
- ii. Force which does not require physical contact between the two bodies on which it acts.
- iii. The ratio of load to effort.
- iv. A grooved wheel which is used along with a rope or a chain.
- v. Unit of thrust.

3. Fill in the blanks.

- i. A quantity which can be measured is called a _____ quantity.
- ii. _____ forces require physical contact between the objects.
- iii. _____ is an instrument used to find the directions at a place.
- iv. Force acting on a body perpendicular to its surface is called _____.
- v. _____ is the total energy of motion and position of an object.

4. Match the following.

Column A	Column B
1. Beam balance	a. Magnetic keepers
2. Rubbing a glass rod with silk cloth	b. Chemical energy
3. Horse-shoe magnet	c. Measurement of mass
4. Burning of a candle	d. Charging by friction
5. Self-demagnetisation	e. Artificial magnet

5. Correct the following sentences.

1. Powder applied on a carrom board increases friction.
2. Magnetic force is the weakest of all the forces.
3. Natural magnets are stronger than artificial magnets.
4. The time period of the simple pendulum depends on the mass of the bob used.
5. Moon is the ultimate source of energy.

6. Differentiate between mass and weight.

7. Define force.

8. What are the uses of an electromagnet?

9. Answer in one sentence:

- i. Define: Light year.
- ii. Give three names of simple machines which are of lever type.
- iii. Which is the most important, inexhaustible and main source of energy?
- iv. What is meant by the term magnetic field?
- v. Give two examples of muscular force.

10. Find the odd one out.

- i. Diesel, petrol, kerosene, photocell
- ii. Beam balance, stopwatch, grocer's balance, digital balance
- iii. Ice tongs, claw hammer, crowbar, see-saw
- iv. Steel, copper, aluminium, brass
- v. Using lubricants, using ball-bearings, polishing the surfaces, making grooves in tyres

11. How can a magnet be demagnetised?
12. Define the Input or input energy
13. Give two advantages of an electromagnet.
14. Define Laboratory thermometer
15. What is a machine?
16. Define Magnetic force
17. Write four advantages of friction.
18. Define Length of a magnet
19. Explain how to prepare a magnet by the magnetic induction method.
20. Define Temporary magnet