

Gaining Apex Coaching Centre

(Where Toppers make..... Toppers)

Compiled by: Dapinderjeet Singh

Assignment: Matter and Surroundings

Question 1. Which of the following are matter?

Chair, air, love, smell, hate, almonds, thought, cold, cold-drink, smell of perfume.

Question 2. Give reasons for the following observation:

The smell of hot sizzling food reaches you several meters away, but to get the smell from cold food you have to go close.

Question 3. A diver is able to cut through water in a swimming pool. Which property of matter does this observation show?

Question 4. What are the characteristics of the particles of matter?

Question 5. (a) Tabulate the differences in the characteristics of states of matter.

(b) Comment upon the following: rigidity, compressibility, fluidity, filling a gas container, shape, kinetic energy and density.

Question 6. Give reasons

(a) A gas fills completely the vessel in which it is kept.

(b) A gas exerts pressure on the walls of the container.

(c) A wooden table should be called a solid.

(d) We can easily move our hand in air but to do the same through a solid block of wood we need a karate expert.

Question 7. Liquids generally have lower density as compared to solids. But you must have observed that ice floats on water. Find out why.

Question 8. For any substance, why does the temperature remain constant during the change of state?

Question 9. Why does a desert cooler cool better on a hot dry day?

Question 10. How does the water kept in an earthen pot (matka) become cool during summer?

Question 11. Why does our palm feel cold when we put some acetone or petrol or perfume on it?

Question 12. Why are we able to sip hot tea or milk faster from a saucer rather than a cup?

Question 13. What type of clothes should we wear in summer?

Question 14. Give reason for the following observations.

Gaining Apex Coaching Centre

(Where Toppers make..... Toppers)

Compiled by: Dapinderjeet Singh

(a) Naphthalene balls disappear with time without leaving any solid.

(b) We can get the smell of perfume sitting several metres away.

Question 15. What is the physical state of water at—

(a) 25°C b) 0°C c) 100°C

Question 16. Give two reasons to justify

(a) water at room temperature is a liquid.

(b) an iron almirah is a solid at room temperature.

Question 17. Why is ice at 273 K more effective in cooling than water at the same temperature?

Question 18. Name A, B, C, D, E and F in the following diagram showing change in its state

