



# CHEMISTRY

## NCERT - NCERT CHEMISTRY(HINGLISH)

### MATTER IN OUR SURROUNDINGS

#### Exercise

1. Which of the following are matter? Chair, air, love, smell, hate, almonds, thought, cold, lemon water, smell of perfume



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**2.** Give reasons for the following observation:

The smell of hot sizzling food reaches you several metres away. But to get the smell from cold food you have to go close.



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**3.** A diver is able to cut through water in a swimming pool. Which property of matter

does this observation show?



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



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5. The mass per unit volume of a substance is called density. (density = mass/volume).

Arrange the following in order of increasing

density-air, exhaust. From chimneys, honey, water, chalk, cotton and iron.



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6. (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.



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## 7. 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.

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



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8. Liquids generally have lower density as compared to solids but you must have observed that ice floats on water. Find out/why.



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9. Convert the following temperatures to the celsius scale.

(a) 300k (b) 573k.



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**10.** What is the physical state of water at: a.  $250^{\circ}C$  b.  $100^{\circ}C$ ?



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



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**12.** Suggest a method to liquefy atmospheric gases.



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**13.** Why does a desert cooler cool better on a hot dry day?



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**14.** How does the water kept in an earthen pot (mataka) become cool during summer?





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



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



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**17.** What type of clothes should we wear in summer?



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**18.** Convert the following temperatures to the celsius scale.

(a) 293k (b) 470k.



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**19.** Convert the following temperature to the kelvin scale.

(a)  $25^{\circ}C$  (b)  $373^{\circ}C$ .



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**20.** Give reason for the following observations.

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

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





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21. Arrange the following substances in increasing order of forces of attraction between the particles-water, sugar, oxygen.



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22. What is the physical state of water at-

(a)  $25^{\circ}$  (b)  $0^{\circ} C$  (c)  $100^{\circ} C$ ?



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**23.** Give two reasons to justify-

(a) Water at room temperature is a liquid

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



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**24.** Why is ice at 273k more effective in cooling than water at the same temperature?

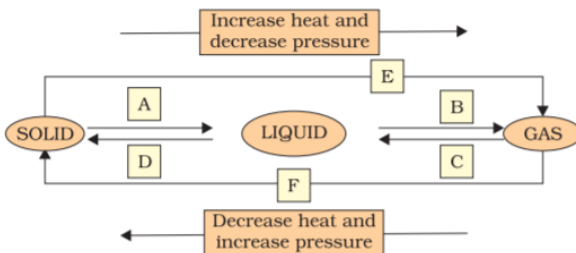


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25. What produces more severe burns, boiling water or steam?

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



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