

Chemistry Worksheet Class 9 on Chapter 1 Matter in Our Surroundings - Set 3

- Q1. Which of the following has the highest kinetic energy?
- (a) Steam particles at 100 °C
- (b) Steam particles at 0 °C
- (c) Water particles at 100 °C
- (d) Water particles at 0 °C
- Q2. What is the physical state of water at 25 ° C?
- (a) Solid
- (b) Liquid
- (c) Gas
- (d) None of the above

Q3. Arrange the following substances in increasing order of forces of attraction between the particles: Water, Sugar, and Oxygen.

- (a) Water < Sugar < Oxygen
- (b) Oxygen < Water < Sugar
- (c) Water < Oxygen < Sugar
- (d) Oxygen < Sugar < Water

Q4. Which of the following is preferred in the summer?

- (a) Cotton
- (b) Polyester
- (c) Nylon
- (d) None of the above

Q5. BEC is the abbreviation for Bose-Einstein Condensate, which has

- (a) Shallow kinetic energy
- (b) Shallow potential energy
- (c) Both (a) and (b)
- (d) None of the above

Q6. What is the SI unit of pressure? Give its value in the atmospheric unit.

Q7. Name the chemical compound present in the nail polish remover.

Q8. Which state of matter is responsible for the glow of the sun and the stars?

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Q9. Fill in the blanks and give a suitable reason for your answer.

(i) Higher the melting point of a substance _____ will be the force of attraction between its particles.(ii) Particles from the bulk of the liquid gain energy to change into the _____ state.

Q10. Write the full form of BEC.

Q11. Name the state of matter that tends to maintain its shape when subjected to outside force.

Q12. The blue colour spreads when a drop of blue ink is put in water, and the whole solution becomes blue. Name the phenomenon due to which this happens.

Q13. Why is dry air heavier than wet air?

Q14. What is humidity? What is the effect of humidity on the evaporation rate?

Q15. What is the plasma state of matter? Give examples in which matter is present in the plasma state.

Q16. Convert 273 K and 373 K into temperatures on the celsius scale. What is the physical state of water at these temperatures?

Q17. When ice at - 10°C is slowly heated, ice temperature gradually increases to O°C. The system's temperature remains constant when the ice changes into water and then rises further. Explain the observation.

Q18. What do you mean by the term evaporation? What are the various factors that affect the evaporation rate?

Q19. How will you differentiate between evaporation and boiling?

Q20. Neha, by mistake, spilt a glass of water on the floor. Her mother suggested switching on the fan, and after a few minutes, she found that all water had disappeared. She asked her mother how this happened and where all water had disappeared. Based on this, answer the following questions:

(i) What was the phenomenon associated with the disappearance of water?

(ii) Why does her mother suggest Neha switch on the fan?

(iii) What are the values associated with her mother?

