

MATTER IN OUR SURROUNDINGS - Class IX - Paper Set 4

- Which of the following explains why liquids take the shape of their container?
 - High compressibility
 - Weak intermolecular forces
 - Strong intermolecular forces
 - Rigid structure
- What is the boiling point of ethanol?
 - 50°C
 - 78°C
 - 100°C
 - 120°C
- The term “latent heat” refers to:
 - Energy required to raise the temperature of 1 gram of water
 - Energy required to change the state of a substance without changing its temperature
 - Energy required for diffusion
 - Energy lost during cooling
- Which state of matter has the least kinetic energy?
 - Solid
 - Liquid
 - Gas
 - Plasma
- What is dry ice?
 - Solid oxygen
 - Solid carbon dioxide
 - Frozen water
 - Solid nitrogen
- What happens to the intermolecular spaces in matter when it is compressed?
 - They increase
 - They decrease

- (c) They remain unchanged
 - (d) They fluctuate
7. Which of the following is not a characteristic of liquids?
- (a) Definite volume
 - (b) Definite shape
 - (c) Fluidity
 - (d) Ability to flow
8. Which of the following is an example of sublimation?
- (a) Water boiling into vapor
 - (b) Ice melting into water
 - (c) Naphthalene balls disappearing over time
 - (d) Condensation on a cold surface
9. What happens to the boiling point of a liquid at higher altitudes?
- (a) It increases
 - (b) It decreases
 - (c) It remains unchanged
 - (d) It fluctuates
10. Which of the following is an irreversible change?
- (a) Melting of butter
 - (b) Freezing of water
 - (c) Rusting of iron
 - (d) Boiling of water

True Answers:

1. (b)
2. (b)
3. (b)
4. (a)
5. (b)
6. (b)
7. (b)
8. (c)
9. (b)
10. (c)