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## CHAPTER END TEST

### MATTER IN OUR SURROUNDINGS

(COVERS PART – I, II & III)

**TIME: 1 HOUR**

Class - IX

**MAXIMUM MARKS: 35**

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**General instructions:**

- (i) All the questions are compulsory.
- (ii) The question paper consists of 20 questions. Question number 1-11 are of 1 mark each, question number 12-16 are of 2 marks each, question number 17-19 are of 3 marks each and question number 20 is of 5 marks.
- (iii) Write down the serial number before attempting the question.
- (iv) Use of a calculator is not permitted.

SECTION - A

1. What is the S. I. unit of temperature and pressure?
2. What will be the effect of increase in temperature of the rate of diffusion?
3. At what temperature is the density of water maximum?
4. Why do soft drinks lose their acidic effect if kept open for a long time?
5. Why can not we cut a stream of water using our fingers?
6. Give the expanded form of: CNG and LPG.
7. If the melting point of a substance is high, what can be concluded about the intermolecular forces between its particles?
8. What is the standard mass of liquid taken to measure its latent heat of vaporization?
9. Convert  $0^{\circ}\text{C}$  to Kelvin scale.
10. What change in the state will be observed if the pressure is applied on a gas?
11. Arrange the following in the increasing order of the strength of intermolecular forces:  
Solids, Liquids, Gases

SECTION - B

12. Give two applications of evaporation in biological phenomenon.
13. (i) What is the process of conversion of liquid into a solid called?

- (ii) What type of energy change takes place in it?
14. How will the pressure of a gas packed in a container change with change in  
(i) temperature                      (ii) volume
15. Why do solids have lowest compressibility? Why sponges are compressible in spite of being solid?
16. Which of the following causes more severe burns—steam at  $100^{\circ}\text{C}$  or water at  $100^{\circ}\text{C}$ ? Why does this happen?

### SECTION – C

17. Mention whether the heat is taken in or given out in the following process:  
(a) Condensation                      (b) Sublimation of solids                      (c) Melting
18. Define density. What is the S.I. unit of density? How is density of a substance related to its compressibility?
19. What is sublime and sublimate? Draw a diagram showing the sublimation of ammonium chloride, label the sublime and sublimate in it.

### SECTION – D

20. Arrange the various states of matter in increasing order of their following properties:  
(i) Compressibility                      (ii) Fluidity                      (iii) Rigidity  
(iv) Density                      (v) Diffusion rate
- Also explain, why are they arranged so.