



# ESSENCE TEST-9

DATE : 25-08-19

9TH CLASS

CBSE(B2)

MATTER IN OUR SURROUNDING  
IS MATTER AROUND AS PURE

Mantra to get the best outcome.....

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Q. I. Very short Answers:

[1×10=10]

1. State any one difference between pure and impure substances
2. Give one test to show that cross is a mixture and not a compound.
3. Texture of iodine has antiseptic properties. How is it prepared?
4. What is meant by concentration of a solution?
5. Do suspensions show the property of Tyndall effect? Why?
6. Particle size of a substance in water is 200 mm. What is the nature of the solution?
7. How can you separate particles of colloidal solution. Name the process.
8. Define latent heat fusion?
9. Convert 250 K to °F.
10. Write two properties of Liquids?

Q. II. Short Answer Questions

[2×10=20]

11. A solution made by dissolving 50 gram of glucose in 250 gram of water. Calculate the concentration of this solution in mass percentage.
12. Give two example of Tyndall effect.
13. Calculate the mass of potassium sulphate required to prepare its 10 percent (mass percent) solution in 100 gram of water.
14. Write two differences between suspension and colloidal solution.
15. Why do sky appear blue?
16. How do sol and gel differ from each other? Give one example for each.
17. The melting points of two solids X and Y are 300 K and 400 K respectively. Which has more intermolecular forces.
18. On suffering from fever which will lower down your body temperature more, ice or ice cold water? Why?
19. Osmosis is a special kind of diffusion. Comment.
20. How change in temperature and humidity affect the rate of evaporation?

Q. III. Short Answers Question

[3×10=30]

21. Comment on the following statements: (i) Evaporation produces cooling. (ii) Spongy though compressible is a solid.
22. (a) Which factor determine the state of a substance.  
(b) Convert 30° C into Kelvin.

23. (a) Dry ice compressed under high pressure. What happens to it when the pressure is released?  
(b) Define (i) Melting point (ii) Fusion.
24. It is a hot summer day. Sohail and Aaliya are wearing cotton and nylon clothes more comfortable and why?
25. Draw a well labelled diagram showing sublimation of ammonium chloride.
26. Can physical and chemical changes occur together? Illustrate your answer.
27. Explain the term 'Centrifugation' give its two applications.
28. Define Homogenous solution and heterogeneous mixture with examples.
29. Explain saturated solution and uncaptured solution.
30. How will you prove that water is a compound? Give three reason.

Q. IV. Long Answer Questions

[5x4=20]

31. (i) What are elements  
(ii) What are the three main types of elements.  
(iii) Write a property of each type of element.
32. Distinguish among the true solution, suspension and colloid in a tabular form under the following heads.  
(a) Stability (b) Filterability (c) Type of mixture
33. Classify each of the following as a physical or a chemical change. Give reasons.  
(a) Drying of a shirt in the sun.  
(b) Rising of hot air over a radiator.  
(c) Burning of kerosene in a lantern.  
(d) Change in the colour of black on adding lemon juice to it.  
(e) Churning of milk cream to get butter.
34. Write five properties of suspension.



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