

DELHI PUBLIC SCHOOL, JAMMU

DATE: 20th August, 2021 ASSIGNMENT – 2

CLASS: IX

Marks-10

SUBJECT: CHEMISTRY

Instructions:

Total No. of questions-10. Each question carry one mark.

TOPIC: IS MATTER AROUND US PURE?

Based on your understanding of the E-Lectures-cum PPT's, video links and other e-resources shared with you, answer the following questions

Type (I) MCQ's with four options

1. When two liquids do not mix, they form two separate layers and are known as
(a) Miscible liquids (b) Immiscible liquids (c) Saturated liquids (d) Super saturated liquids
2. If we put camphor in an open container, its amount keeps on decreasing due to the phenomenon of
(a) Evaporation (b) Precipitation (c) Condensation (d) Sublimation
3. Heterogeneous mixture in which the solute particles do not dissolve and remain suspended throughout the solvent and the solute particles can be seen with the naked eye is known as:
(a) Colloidal solution (b) Super saturated solution (c) Sublimation (d) Suspensions

Type (II) Assertion & Reasoning Type

Directions:

In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statement, mark the correct answer as:

- (A) If both assertion and reason are true and reason is the correct explanation of assertion.
(B) If both assertion and reason are true but reason is not the correct explanation of assertion.
(C) If assertion is true but reason is false.
(D) If assertion is false but reason is true.

4. **Assertion** : When a beam of light is passed through a colloidal solution placed in a dark place the path of the beam becomes visible.

Reason : Light gets scattered by the colloidal particles.

- (a) A (b) B (c) C (d) D

5. **Assertion** : A solution of table salt in a glass of water is homogeneous.

Reason : A solution having different composition throughout is homogeneous.

(a)A (b) B (c) C (d) D

6. **Assertion** : A mixture of camphor and ammonium chloride cannot be separated by sublimation.

Reason : Camphor on heating sublimes, ammonium chloride does not.

(a)A (b) B (c) C (d) D

Type (III) Fill in the blank

7. We can separate a pure solid from its solution by _____

(a) crystallization (b) simple distillation (c) sedimentation (d) both (a) and (b)

8. _____ gas present in air has the highest boiling point?

(a) Oxygen (b) Nitrogen (c) Argon (d) Hydrogen

Type (IV) Match the column

9. Match the statements of column I with statements of column II

Column I		Column II	
A	Salt solution	1	Suspension
B	Blood	2	Colloid
C	Smoke	3	True solution
D	Chalk water	4	Emulsion

Type (V) Case Study questions

10. Rita's father always got his vehicle checked for pollution control. He got it tested for the aerosol if released by his car. He also uses unleaded petrol and makes use of public transport wherever possible. He sparingly uses his car.

(a) What is aerosol?

i) liquid in liquid ii) solid in liquid iii) solid in gas iv) solid in solid

(b) What happens when smoke released from vehicle mixes with fog? It forms

i) Smog ii) Emulsion iii) Slag iv) Suspension

You-Tube Links:

1. <https://www.youtube.com/watch?v=cr-LL8VOr6E>
2. https://www.youtube.com/watch?v=uKCm_f0Xg_w
3. <https://www.youtube.com/watch?v=JnvZRI7uUYo>
4. https://www.youtube.com/watch?v=oO_l2hDKHAU

Note:

1. Due date of submission: 27th August 2021
2. Send your answer here:
 - (a) bhartimunshi@gmail.com for classes IXF, IXG, IXH, IXI, IXJ
 - (b) jasleenkour2792@gmail.com for classes IXA, IXB, IXC, IXD, IXE
3. Students must mention their name, class/section and date in their assignments.
4. Your Assignment will be marked for internal/ Term assessments. Therefore, it is necessary for you to submit it on time.