## Class 9 | Science

QUIZ-01



## CHAPTER-2 | Is Matter Around Us Pure

1. Which of the following is a homogeneous mixture?	6. Which of the following is an example of a
A. Soil B. Air	compound?
C. Oil and water	A. Air B. Soil
D. Iron and sulphur mixture (B)	C. Water D. Milk (C)
<b>Explanation:</b> Air is a homogeneous mixture of gases	Explanation: Water is formed by a chemical
like nitrogen and oxygen that are uniformly	combination of hydrogen and oxygen in a fixed
distributed.	ratio, making it a compound.
2. Which of the following is a property of a	7. Which method is used to separate butter from
suspension?	curd?
A. Particles are invisible to the naked eye	A. Filtration B. Decantation
B. Particles settle down when left undisturbed	C. Centrifugation D. Distillation (C)
C. It is a stable mixture	Explanation: Butter is separated from curd using
D. It cannot scatter light (B)	centrifugation, which separates components
Explanation: Suspensions are unstable and the	S. Burg. S. AM S. Commission of the Commission o
solute particles settle down if left undisturbed.	based on density.
3. What is the particle size in a true solution?	8. Which of these will form a heterogeneous
A. Larger than 100 nm	mixture?
B. Between 1 nm and 100 nm	A. Sugar in water
C. Less than 1 nm	B. Copper sulphate in water
D. Cannot be determined (C)	C. Oil in water
Explanation: In a true solution, particle size is less	D. lodine in alcohol (C)
than 1 nanometre, making it invisible to the naked	Explanation: Oil and water do not mix uniformly and
eye.	form a heterogeneous mixture.
4. Which separation technique is used to separate	9. What is the solute in soda water?
ammonium chloride from a mixture?	A. Water B. Oxygen
A. Filtration B. Sedimentation	C. Sugar D. Carbon dioxide (D)
C. Sublimation D. Evaporation (C)	Explanation: Carbon dioxide gas is dissolved in water
<b>Explanation:</b> Ammonium chloride is separated by	in soda water, making it the solute.
sublimation as it changes directly from solid to gas.	10. Which one of the following changes is a chemical
5. Which of the following mixtures will show the	change?
Tyndall effect?	A. Melting of butter B. Cutting of trees
A. Salt solution	C. Burning of paper D. Freezing of water
B. Copper sulphate solution C. Milk	(C)
D. Sugar solution (C)	Explanation: Burning of paper results in the formation
Explanation: Milk is a colloid, and colloids scatter	of new substances like ash and gases, which is a
Explaination. White is a control and control scatter	1 3 1 3 3 1 1 3

light, showing the Tyndall effect.

chemical change.