

Is Matter Around Us Pure

Question 1.

What is the boiling point of acetone?

- (a) 196°C
- (b) 186°C
- (c) 78.3°C
- (d) 183°C

▼ Answer

Answer: (c) 78.3°C

Question 2.

Who was the first scientist to use the term 'element' in 1661?

- (a) Robert Boyle
- (b) Charles
- (c) Antonnie Lorent
- (d) None of them

▼ Answer

Answer: (a) Robert Boyle

Question 3.

Boron, silicon, germanium, etc., are:

- (a) Metals
- (b) Non-metals
- (c) Metalloids
- (d) None of them

▼ Answer

Answer: (c) Metalloids

Question 4.

The major component of a solution is called:

- (a) solute
- (b) insoluble
- (c) solvent
- (d) solution

▼ Answer

Answer: (c) solvent

Question 5.

Which of the following will show the "Tyndall effect"?

- (a) Salt solution
- (b) Milk and starch solution
- (c) Copper sulphate solution
- (d) None of them

▼ Answer

Answer: (b) Milk and starch solution

Question 6.

The size of colloidal particles are:

- (a) $10^{-4} 10^{-8}$ m
- (b) $10^{-10} 10^{-12}$ m
- (c) $10^{-2} 10^{-4}$ m
- (d) $10^{-10} 10^{-8}$ m

▼ Answer

Answer: (d) $10^{-10} - 10^{-8}$ m

Ouestion 7.

Which of the following are physical changes?

- (i) Melting of iron metal
- (ii) Rusting of iron
- (iii) Bending of an iron rod
- (iv) Drawing a wire of iron metal
- (a) (i), (ii) and (iii)
- (b) (i), (ii) and (iv)
- (c) (i), (iii) and (iv)
- (d) (ii), (iii) and (iv)

▼ Answer

Answer: (c) (i), (iii) and (iv)

Question 8.

Which of the following are chemical changes?

- (i) Decaying of wood
- (ii) Burning of wood
- (iii) Sawing of wood
- (iv) Hammering of a nail into a piece of wood
- (a) (i) and (ii)
- (b) (ii) and (iii)
- (c) (iii) and (iv)
- (d) (i) and (iv)

▼ Answer
Answer: (a) (i) and (ii)
Question 9. Which of the following are homogeneous in nature? (i) Ice (ii) Wood (iii) Soil (iv) Air (a) (i) and (ii) (b) (ii) and (iv) (c) (i) and (iv) (d) (iii) and (iv)
▼ Answer
Answer: (c) (i) and (iv)
Fill in the Blanks.
Question 10. Pure substances can be elements or
▼ Answer
Answer: compounds
Question 11. Metals are good of heat and electricity. ▼ Answer
Answer: conductor
Question 12. To separate a mixture of two or more miscible liquids for which the difference in boiling points is less than fractional distillation method is used. ▼ Answer
Answer: 25K
Question 13. The diameter of suspension particles is bigger than
▼ Answer

Answer: 10⁻⁵ m Question 14. _____ effect originates due to optical properties of a colloidal solution. **▼** Answer Answer: Tyndall True/False. Question 15. The concentration of a solution is the amount of solute present per unit volume or per unit mass of the solution/solvent. **▼** Answer Answer: True Question 16. Colloids are homogeneous mixtures. ▼ Answer Answer: False Question 17. The solution is a homogeneous mixture. **▼** Answer Answer: True Ouestion 18. The characteristic features of a particular substance obtained from different sources will be different. **▼** Answer Answer: False Question 19.

▼ Answer

Answer: False

A mixture has a fixed melting point.

Question 20.

The particles of a suspension can not be filtered out by using filter paper.

▼ Answer

Answer: True

Match the Column.

Question 21.

Α	B
1. Aerosol	(i) Shaving cream
:/ Foam	(ii) Coloured gemstone, milky glass
3. Emulsion	(iii) Milk of magnesia, mud
4. Sol	(iv) Milk, face cream
5. Gel	(v) Fog, clouds, mist
6. Solid sol	(vi) Jelly, cheese, butter

▼ Answer

Answer:

Α	B
1. Aerosol	(v) Fog, clouds, mist
2. Foam	(i) Shaving cream
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6. Solid sol	(ii) Coloured gemstone, milky glass

Answer in one Word/Sentence.

Question 22.

What is known as 'tincture iodine'?

▼ Answer

Answer: Solution of iodine and alcohol

Question 23.

Which technique is used to separate two immiscible liquids?

▼ Answer

Answer: By the use of separating funnel

Question 24.

What is a substance composed of two or more elements, chemically combined with one another in a fixed proportion known as?

▼ Answer

Answer: Compound

Question 25.

Name a metallic element found in a liquid state at room temperature.

▼ Answer

Answer: Mercury

Ouestion 26.

How would you separate common salt and iodine from their mixture?

▼ Answer

Answer: By sublimation