**WORKSHEET I2**

**Question1:** Which of the following is not a pure substance?

1. Mercury

2. Sugar

3. Blood

4. Salt

**Question2:** oil in water is an example of \_\_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| 1. | compound |
| 2. | two elements |
| 3. | mixture |
| 4. | true solution |

**Question3:**   A mixture of mercury and copper is an example of \_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| 1. | solid and solid mixtures |
| 2. | liquid and solid mixtures |
| 3. | solid and liquid mixtures |
| 4. | liquid and liquid |

mixtures  
  
**Question4:**   Which of the following is not a mixture?

|  |  |
| --- | --- |
| 1. | Blood |
| 2. | Silver coins |
| 3. | Saliva |
| 4. | Plutonium |

**Question5:**   The quantity of solute present in a given amount of solution represents\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1. | solubility |
| 2. | concentration |
| 3. | sublimate |
| 4. | saturation |

**Question6:**   In a colloidal solution\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1. | the size of a colloidal particle lies roughly between 0.1 nm to 1 nm. |
| 2. | the particles have a tendency to settle when the solution is left standing. |
| 3. | the particles pass through ultrafilter papers and animal and vegetable membranes. |
| 4. | the dispersed phase is uniformly distributed in the dispersion medium |

**Question7:**   On adding excess salt to a solution, it shows no change in solubility. This shows\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1. | crystallization |
| 2. | slow Diffusion |
| 3. | saturation |
| 4. | dissolution |

**Question8:** A true solution is a \_\_\_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| 1. | homogeneous mixture |
| 2. | heterogeneous mixture |
| 3. | pure compound |
| 4. | impure compound |

**Question9:**Tyndall Effect in colloids is due to \_\_\_\_\_\_\_\_\_.

|  |  |
| --- | --- |
| 1. | dispersion of light |
| 2. | merging of light rays |
| 3. | scattering of light |
| 4. | convergence of light rays |
|  | **Question10:**the amount of oxygen dissolved in lakes and ponds will be more during:  1.Summers  2.Winters  3.Autumn  4.None of the above.  **Question11:** At higher temperature,the solubility of:  1.Gases into solids will increase  2.solids into liquids will increase  3.solids into liquids will decrease  4.The solubility is not affected by temperature.  **Question12:** The saturated solution can be made unsaturated:  1.By increasing pressure and decreasing temperature.  2.By heating and adding more solvent  3.By adding more solute and cooling  4.By continuous heating and cooling  **Question13.** Which of the following is not a mixture?  (a) Soil  (b) Air  (c) Steam  (d) Milk  **Question14.** The size of colloidal solution is in the range of  (a) 1 —100 nm  (b) 100 — 1000 nm  (c) 10–5 m — 10–7 m  (d) 107m — 109m  **Question15**. Brass contains  (a) Gold and copper  (b) Copper and zinc  (c) Zinc and silver  (d) Copper and silver  **Question16:** The boiling point of pure water is 100’C ,if common salt is added to this water what will happen to the boiling point.  1.It will remain same  2.It will decrease  3.It will increase  4.First increase and then decrease  **Question17:**The meling point of pure water is 0’C ,if common salt is added to this water,what will happen to the melting point.  1.It will remain same  2.It will decrease  3.It will increase  4.First increase and then decrease  **Question18:**Which one of the following is a pure substance  a.milk  b.cold drink  c .carbon dioxide  d. brass  **Question19:** which one is a mixture :  a. salad of fruits  b. air  c. sea water  d. all of the above  **Question20:**Which one of the following is an example of heterogeneous mixture  a. NaCl + water  b. kerosene + water  c. sugar + water  d. alum + water  **Question21:**Which one is not the property of a mixture  a. heterogeneous  b. variable composition  c . constant composition  d. none of these  **Question22:**'more than one substance in the material'?  A. mixture  B. pure  C. impurity  D. saturated  **Question23:**Which word best goes with 'mixing the salt with water'?  A. dissolving  B. evaporating  C. filtering  D. crystallising  **Question24:**Which word means 'it will dissolve'?  A.solvent  B.solute  C. soluble  D. solution  **Question25:**Which of the following means 'it won't dissolve'?  A. solubility  B. insoluble  C. saturated  D. dissolves  thermom06.gif  **Question26:**What temperature does the Celsius thermometer read in oC ?  A. 46.5  B. 53  C. 63.5  D. 51.5  **Question28:**Which of the following would be described as a mixture?  A. rock salt  B. crystallised salt  C. water  D. steam  **Question29:**Which of these can make a solid substance dissolve faster in a liquid?  A. let the large undissolved pieces settle out  B. use smaller lumps of solid  C. use a little solid at a time to a large volume of liquid  D. cool the solid-liquid mixture |

**Question31:** Name the process of conversion of solid to vapor

a. evaporation

b. fusion

c. distillation

d. sublimation

**Question** Salt and water is an example of a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** A mixture of clay and water is an example of a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** A mixture of alcohol and water is an example of a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** A mixture made of oil and water is an example of a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** A mixture is described as a heterogeneous liquid where two liquids are visible andthe mixture shows the tyndall effect. This mixture would be a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** A mixture is described as looking homogeneous, not settling when left standing undisturbed and does show the tyndall effect. This mixture would be classified as a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** A mixture is described as being homogeneous but does not show the tyndall effect.This mixture would correctly be classified as a:

A..solution

B.suspension

C.emulsion

D.colloidal dispersion

**Question** Which of these is an example of a colloidal dispersion?

A..oil and vinegar

B.soil and water

C.salt and water

D.liquid laundry starch and water

**Question** If you wanted to make an emulsion, which of the following substances would you add to water?

A..water

B.oil

C.vinegar

D.alcohol

**Question** If you want to make a solution, which would you mix with water?

A..water

B.oil

C.sand

D.alcohol

**Q.II. Classify each of the following mixtures as a solution, suspension, emulsion or colloidal**

**dispersion.**

1. A glass of whole milk

2. A glass of pop

3. A cup of black coffee

4. Italian salad dressing

5. Gravel and water

6. Hot noodle soup

7. A glass of cool iced tea

8. Ketchup

9. A glass of orange juice

10. A mixture of water and diesel fuel